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TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP

Division of Arvin/Calspan

CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 92-10

VEHICLE - 1991 DODGE CARAVAN

LOCATION - PA

ACCIDENT DATE - 1992

Contract No. DTNH22-87-C-27169

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

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survived the potentially f				
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The driver also sustained	lumbar strain (A	NIS-1) from the in	mpact force ar	nd restraint
loading. The 1988 Dodge Carava	n was rotated in	a counterclockw	ise direction	and subse-
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Subsequent rollover				
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CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 92-10

VEHICLE - 1991 DODGE CARAVAN LOCATION - PA

SUMMARY

This crash occurred on a 4-lane divided highway on the 1992 during daylight hours in PA. The dry concrete road surface was straight with a 2% downgrade to the west. An air bag equipped 1991 Dodge Caravan was traveling in an easterly direction on the inboard travel lane of the divided highway at an estimated speed of 88-96 kph (55-60 mph). A noncontact vehicle that was traveling on the outboard eastbound lane initiated a rapid lane change maneuver directly in front of the Dodge Caravan. The driver of the Dodge Caravan took evasive action and swerved to the left (counterclockwise steering input) to avoid impact. The Caravan traversed the grass median and entered the inboard westbound travel lane.

A 1988 Dodge Caravan was traveling in the outboard westbound lane of the divided highway as the '91 Caravan entered the grass median. The female driver of the 1988 Caravan stated that she was traveling at 88-96 kph (55-60 mph) and did not detect the encroaching vehicle until immediately prior to impact; therefore, she did not initiate avoidance action.

The front left area of the 1991 Dodge Caravan impacted the left side area of the 1988 Caravan. Resultant directions of force were within the 1 o'clock sector for the '91 Caravan and 10 o'clock for the '88 Caravan. Frontal damage to the 1991 Caravan began 28.6 cm (11.25") left of center and extended to the left front corner area of the vehicle. Maximum crush was 41.6 cm (16.375") located at the left corner of the bumper reinforcement bar. Crush values across the front of the vehicle were as follows: C_1 =41.6 cm (16.375"), C_2 =32.1 cm (12.625"), C_3 =20.0 cm (7.875"), C_4 =9.8 cm (3.875"), C_6 = -5.1 cm (-2.0").

As a result of the crash the 1991 Caravan underwent a velocity change of 22.3 kph (14.4 mph) and as a result, the driver's air bag system deployed. The 1988 Caravan underwent a velocity change of 22.8 kph (14.2 mph).

The 1988 Dodge Caravan sustained moderately severe left side damage that began on the left front wheel and extended down the entire length of the van. Maximum crush was 21.9 cm (8.625") located at the lower body crease 17.8 cm (7") rearward of the left B-pillar. The Field L was 330.5 cm (130.1") with the following crush values: C_1 =4.4 cm (1.75"), C_2 =14.6 cm (5.75"), C_3 =19.1 cm (7.5"), C_4 =20.0 cm (7.875"), C_5 =14.3 cm (5.625"), C_6 =0 cm (0"). The front bumper of the 1991 Caravan impacted the left rear tire and wheel of the '88 Caravan with sufficient force to fracture the left rear axle which resulted in complete separation of the wheel and brake assembly.

SUMMARY (CONT'D.)

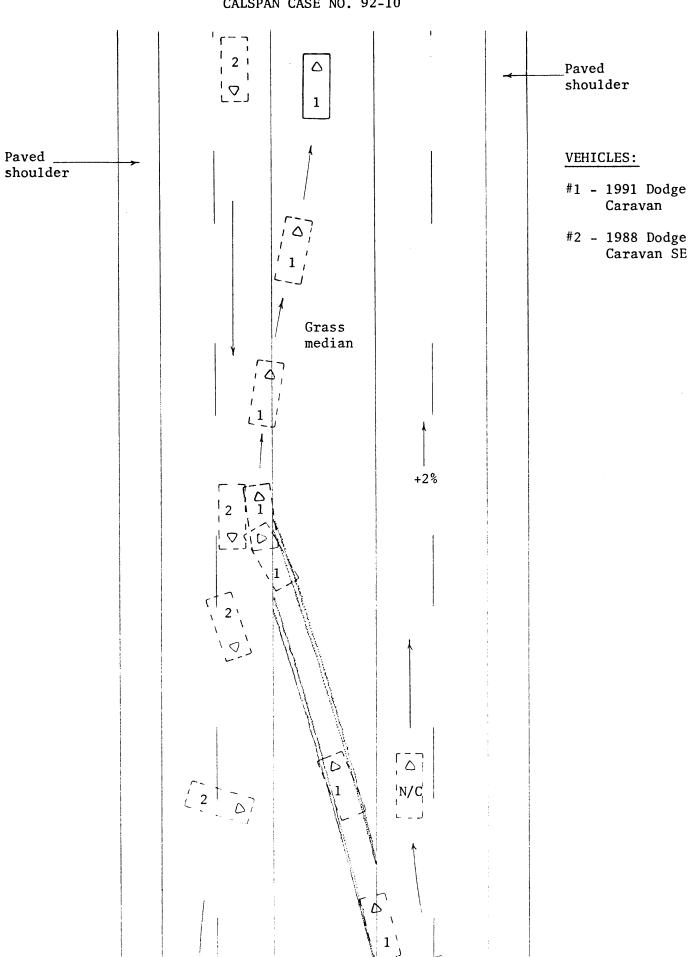
The crash rotated the 1988 Dodge Caravan in a counterclockwise direction which initiated a side-over-side rollover sequence. The van rolled approximately 6 quarter turns before coming to rest on its roof a police reported distance of 91.4 m (300') west of the point of impact. At rest the vehicle was facing in a northwesterly direction in the outboard westbound travel lane. The air bag equipped 1991 Dodge Caravan was deflected into the grass median where it came to rest approximately 30.2 m (99') east of the initial point of impact. At rest, the vehicle was facing in an easterly direction.

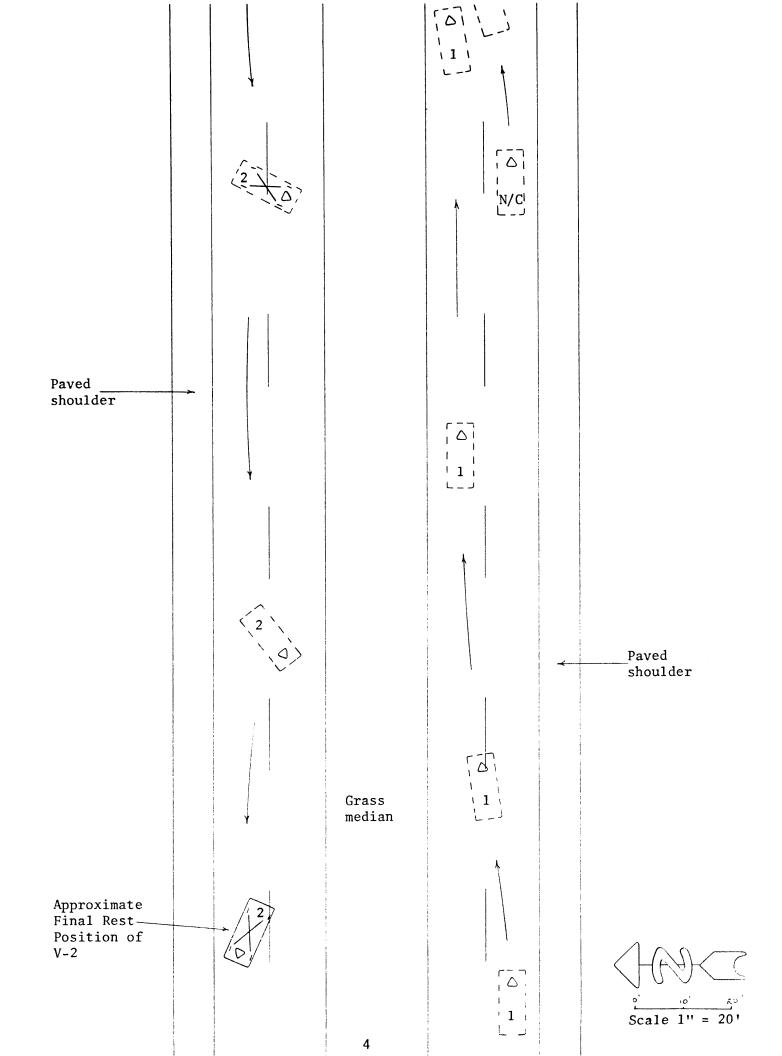
The driver of the 1991 Dodge Caravan was a 31 year old female. properly restrained by the active 3-point lap and shoulder belt system. Her seat was adjusted to a rearward position (2" from full rearward position) and the vehicle was equipped with a fixed, nontilting column. At impact she initiated a forward trajectory and loaded the active belt system. No evidence of loading was visible on the belt webbing or the restraint hardware. Her face probably contacted the deployed air bag which prevented her from possible contact with the steering assembly. The deployed air bag contacted the anterior aspect of her left forearm, which resulted in a 17.8 cm (7") x 5.1 cm (2") contusion (AIS-1) of her forearm. The hot gases within the bag burned the anterior aspect of her right forearm (AIS-1) as her arm was contacted by the air bag. She also reported the hair on her right forearm was singed in the area of the burn. The upper air bag module flap struck her left ring and 5th fingers which resulted in contusions (AIS-1) to the dorsal The driver sustained pain over the left shoulder and upper chest from loading the active belt webbing. She also sustained lower back strain (AIS-1) from the impact force and restraint loading. The driver was transported by ambulance to a local hospital where she was treated for her injuries and released.

The 1988 Dodge Caravan was occupied by the 36 year old female driver (67", 130 lbs.) and her 14 year old daughter (61", 125 lbs.). Both occupants were properly wearing the active 3-point lap and shoulder belt systems. In response to the initial impact with the other Caravan, the driver initiated a lateral trajectory to her left. Her left lateral thigh contacted the left door panel which resulted in a contusion (AIS-1) to the thigh above the knee. The driver's left elbow and left shoulder areas contacted the road surface during the rollover sequence which resulted in abrasions (AIS-1). She also sustained a laceration (AIS-1) above the left ear from probable contact with flying glass. As the vehicle came to rest, the driver unbuckled the active belt system and crawled out of the left front door window (all side glass with the exception of the left rear quarter window was shattered during the rollover). She sustained lacerations of both knees that probably resulted from shattered glass as she crawled out of the vehicle. There was no evidence of knee contacts within the vehicle.

During the rollover sequence, the right front occupant's left foot traveled through the right front door window opening and was crushed (AIS-3) between the concrete road surface and the right upper A-pillar. White rubbery material (probable sneaker) was found embedded in the pillar adjacent to the door window frame. The dorsal aspect of her foot was also heavily abraded (AIS-1). The passenger subsequently unfastened her belt system and crawled out of the left front door window. She was transported to a local hospital and admitted for treatment of her injuries (10 days). The driver was treated and released at the same hospital.

ACCIDENT SCHEMATIC CALSPAN CASE NO. 92-10





CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 92-10

VEHICLE - 1991 DODGE CARAVAN LOCATION - PA

ACCIDENT DATA

Location: Rural four-lane divided highway

City/Township: PA

Area/Type: Rural/Residential

Accident Date/Time: 1992, daylight hours

Investigating Police
Agency: State Police

Accident Type: Minivan/Minivan, front to side impact

configuration with subsequent rollover

Air Bag Vehicle

Driver Injury Severity: Minor (AIS-1)

AMBIENCE

Viewing Conditions: Daylight

Weather: Clear

Precipitation: None

Road Surface: Dry

HIGHWAY

Type: State route

Number of Lanes: 4, divided

Width: 7 m (23')

Surface: Concrete, worn condition

Median: 6.4 m (21') wide grass median

Edge: Outboard edge - 2.6 m (8'6") paved shoulder

Inboard edge - Grass median

HIGHWAY (CONT'D.)

Vertical Alignment:

2% grade, positive to the east

Horizontal Alignment:

Straight

Estimated Coefficient

of Friction:

.65

Traffic Density:

Moderate

TRAFFIC CONTROLS

Signals:

None

Signs:

No pertinent signs

Markings:

Broken white lane lines, solid white outboard

edgelines, solid yellow inboard edgelines

Speed Limit:

55 mph

VEHICLES

ICLES		
	Air Bag Vehicle	Vehicle #2
Description:	1991 Dodge Caravan, 7 passenger seating configuration	1988 Dodge Caravan, SE, 5 passenger seating configura- tion
V.I.N.:	2B4GK25KGMR (production number deleted)	2B4FK41K1JR (production number deleted)
Color:	Burgundy	Light blue
Odometer:	14,145.5 km (8,786 miles)	123,481.5 km (76,696.6 miles)
Engine:	4 cylinder, 2.5 liter	4 cylinder, 2.5 liter
Transmission:	3-speed automatic, column mounted selector lever	3-speed automatic, column mounted selector lever
Steering:	Power	Power

Brakes:

Power front disc/rear drum

Power front disc/rear drum

Padding:

Upper and mid instrument panel, soft edged steering wheel rim and air bag module cover, sunvisors, door panels, door armrests, fold-down armrests, integral head restraints,

soft edged steering wheel rim and spoke cover, sunvisors, door panels, door armrests, fold-down armrests, integral head restraints, headliner

Upper and mid instrument panel,

headliner

VEHICLES (CONT'D.)

Restraints:

Air Bag Vehicle

3-point lap and shoulder belt Active systems in the six outboard Restraints:

seated positions, center rear (third seat) lap belt

Automatic Supplemental driver's air bag

> system that deployed at impact with vehicle #2

Defects: None

Tow Status:

Towed due to vehicle damage

Vehicle #2

3-point lap and shoulder belts in the left front and right front seated positions, 3 lap belts for the rear seat

None

None

Towed due to vehicle damage

VEHICLE DAMAGE

Air Bag Vehicle

Exterior:

The air bag equipped 1991 Dodge Caravan sustained moderately severe frontal crush from its impact sequence with the side of vehicle #2. Maximum crush was 41.6cm (16.375") located at the left corner of the front bumper reinforcement bar. Direct contact damage on the bumper facia began 28.6cm (11.25") left of center and extended 48.9cm (19.25") to the corner. The bumper facia subsequently separated from the reinforcement bar and contacted the concrete road surface which resulted in abrasions across the full width of the facia. impact deformed the entire frontal area of the vehicle which resulted in a combined induced and direct contact damage of 139.7cm (55.0"). Crush values at the bumper reinforcement bar were as follows: $C_1=41.6cm (16.375")$, $C_2=32.1cm (\hat{1}2.625"), C_3=$ $20.0 \text{cm} (7.875''), C_4 = 9.8 \text{cm}$ (3.875''), $C_5=2.2cm (0.875'')$, $C_6 = -5.1 \text{cm} (-2.0)$.

As a result of the front to side impact configuration, the 1991 Dodge Caravan sustained a 1 o'clock impact force.

Vehicle #2

The 1988 Dodge Caravan sustained moderately severe left side damage from its impact sequence with the air bag equipped minivan. Direct contact damage began on the left front wheel, 15.2cm (6") rearward of the axle position, and extended rearward 330.5cm (130.1") across the dogleg of the left front fender, left door, and the left quarter panel. The direct contact damage ended at the left corner of the rear bumper. Maximum crush was 21.9 cm (8.625"). located on the lower crease of the left quarter panel 17.8cm (7") rearward of the left B-pillar. Crush values at the lower body crease level were as follows: $C_1=4.4$ cm (1.75"), $C_2=$ 14.6cm (5.75"), $C_3=19.1$ cm (7.5"), $C_A = 20.0 \text{cm} (7.875^{"}), C_5 = 14.3 \text{cm}$ (5.625''), $C_6=0.0cm (0.0'')$. The left door was jammed closed due to exterior deformation.

As the bumper of the air bag equipped Dodge Caravan engaged with the left side of vehicle #2, it contacted the left rear tire and wheel and fractured the axle which resulted in complete separation of the tire, wheel, and brake assembly.

The 1988 Dodge Caravan was rotated in a counterclockwise direction by the initial impact and subsequently

Air Bag Vehicle

Exterior (Cont'd.):

lateral component of the impact force displaced the front bumper reinforcement bar to the vehicle's left. The left front fender was snagged by the side surface of vehicle #2 and separated from the 1991 Caravan. The upper fender support rail was also snagged and displaced outboard of the vehicle's body line. The left wheelbase was reduced in length by 4.8cm (1.9") while the right wheelbase was measured at 285cm (112.2"), .25cm (0.1") less than the specified length.

Components damaged by the impact included the front bumper facia, front bumper reinforcement bar, both front frame rails, grille, hood, left headlamp assembly, radiator support panel, radiator, air conditioning condensor, left front fender, left fender support rail, left inner fender, and the transaxle (cracked case). There was no glass damage to the vehicle and all doors remained closed during the crash and fully operational post-crash.

CDC:

01-FLEW-2

Repair Cost:

\$9,069.23 inclusive of air bag module, two front crash sensors, and the steering wheel clockspring assembly

Vehicle #2

overturned on the concrete road surface. The vehicle initiated a side-over-side rollover sequence leading with its right side. Direct contact damage (i.e., abrasions) began on the right front fender flare at the axle position and extended 358.1cm (141") to the rear corner. The direct contact damage extended vertically up the right A-pillar and down the full length of the side rail. The vehicle's contact with the ground deformed the right roof gutter downward which prevented the right doors from opening. As the vehicle continued onto its roof, the van was pitched with its front side down due to the front wheel drive forward weight distribution. The paint abrasions were distributed across the full width of the roof and extended 25.4cm (10") rearward of the right B-pillar. The remainder of the roof was not damaged. The hood sustained direct contact damage that extended 71.1cm (28") left of center and 40.0cm (18.5") right of the centerline. Maximum roof crush was 8.9cm (3.5") located at the windshield header directly above the steering column. Rollover damage also extended the full length of the left side of the vehicle. The left rear quarter window was opened during the rollover and was scratched, but not broken. All other side glass and the backlight were shattered during the rollover. The windshield was cracked due to deformation of the A-pillars and the windshield header. There was no bond separation or laminant tears in the windshield.

Initial Impact - 10-LDEW-3

Subsequent Rollover - 00-TYDO-3

Total loss

VEHICLE DAMAGE (CONT'D.)

Air Bag Vehicle

Interior:

There was no residual damage to the interior of the air bag equipped 1991 Dodge Caravan. The only visible occupant contact point was a possible left knee scuff mark on the protrusion of the knee bolster at the base of the steering column. The contact was located 48.3-52.1cm (19-20.5") left of center and 34.3-35.6cm (13.5-14") below the top surface of the instrument panel. There was no evidence of contact (i.e., makeup transfers) on the deployed air bag or loading evidence on the active belt system.

Vehicle #2

The interior of the 1988 Dodge Caravan sustained moderate damage from the left side impact and rollover sequences. The left side structure and the roof intruded into the passenger compartment. Maximum intrusion involved 8.9cm (3.5") of displacement of the windshield header and roof into the driver's position. The left roof side rail and upper left A-pillar were displaced 5.7cm (2.25") downward. The left door panel was displaced 6.4cm (2.5") laterally into the driver's seated area. The left rear occupant space sustained 7.6cm (3") of intrusion of the left B-pillar and side panel. The right front occupant's space was reduced in size by 5.1cm (2") of displacement of the windshield header area.

There was no residual damage to the vehicle's interior that resulted from occupant contact. The driver probably contacted the left door panel and armrest during the collision sequence. The passenger's left foot exited the right front door opening during the rollover and was subsequently crushed between the right A-pillar and the road surface. White sneaker fragments were embedded between the A-pillar and the door window frame and also between the windshield molding and the A-pillar.

VEHICLE VELOCITY ESTIMATES

	Air Bag Vehicle	Vehicle #2
Travel Speed:	88-96 KPH (55-60 mph) Driver estimate	88-96 KPH (55-60 mph) Driver estimate
Impact Speed:	Unknown	88-96 KPH (55-60 mph) Driver estimate
Total △V:	22.3 KPH (14.4 mph)	22.8 KPH (14.2 mph)
Longitudinal △V:	-21.1 KPH (-13.1 mph)	-13.1 KPH (-8.1 mph)
Lateral △V:	- 9.8 KPH (-6.1 mph)	18.7 KPH (11.6 mph)
Energy Absorption:	64,602.2 joules (47,641.8 ft.1bs.)	41,102.6 joules (30,311.7 ft.1bs.)

AIR BAG SYSTEM (1991 Dodge Caravan)

The 1991 Dodge Caravan was equipped with a supplemental driver's side air bag system which deployed as a result of the vehicle's impact sequence with vehicle #2. The system was equipped with two crash sensors that were mounted to the inner surface of the radiator support panel inboard of the front fenders. The right crash sensor was not damaged; however, the left sensor housing was cracked at the inboard mounting location. The wiring harnesses were not damaged.

The deployed air bag measured 61 cm (24") in diameter horizontally from seam to seam. The bag was tethered by four internal straps that were sewn to the bag with a 16.2 cm (6.375") diameter tether reinforcement located at the center point of the bag. Three rows of blue stitching attached the tether reinforcement to the face of the bag. There was no damage to the air bag or internal tether straps.

The air bag was vented by two 3.2 cm (1.25") diameter venting ports that were located on the back side of the bag (side away from driver) within the 12 o'clock sector of the bag. The center of the ports were located 7.3 cm (2.875") below the peripheral seam. With the steering wheel in a straight 12/6 o'clock position, there were eleven visible horizontal fold lines in the bag and only two pronounced vertical fold lines. The air bag was identified by the following alphanumerical sequence:



(P)

COLLISION SEQUENCE

Pre-Crash:

The driver of the air bag equipped 1991 Dodge Caravan stated that she was traveling in an easterly direction on the right outboard lane of the divided highway at an estimated speed of 88-96 KPH (55-60 mph) and initiated a lane change maneuver into the left lane in an attempt to avoid congestion in the right lane. A non-contact vehicle that was traveling in the right lane was reportedly cut-off by another non-contact vehicle. The driver of the non-contact vehicle swerved into the left lane directly in front of the Dodge Caravan. The driver of the Dodge Caravan applied her brakes and swerved into the grass median to avoid impact with the non-contact vehicle.

Based on physical evidence found at the crash scene, the Dodge Caravan initiated a slight counterclockwise yaw of approximately 80 as it traversed the grass median.

Vehicle #2, a 1988 Dodge Caravan, was traveling in a westerly direction on the left inboard travel lane at a driver estimated speed of 88-96 KPH (55-60 mph). The driver of the 1988 Dodge Caravan stated that she did not detect the encroaching 1991 Dodge Caravan in sufficient time to initiate avoidance action.

Crash:

The left frontal area of the 1991 Dodge Caravan impacted the left side area of vehicle #2. Initial contact on vehicle #2 began at the left front wheel and extended rearward as the vehicles continued in their respective directions. The left front bumper area of the air bag equipped Dodge Caravan engaged against the left front door, quarter panel, and the left rear tire and wheel assembly of vehicle #2. The impact fractured the axle assembly which resulted in complete separation of the tire and wheel. Resultant directions of force were within the 1 o'clock sector for the 1991 Dodge Caravan and 10 o'clock for vehicle #2.

Velocity changes of 23.3 KPH (14.4 mph) for the air bag vehicle and 22.8 KPH (14.2 mph) for vehicle #2 were computed by the damage algorithm of the CRASHPC program. The impact induced deceleration deployed the 91 Dodge Caravan's supplemental driver's air bag system.

As a result of the front to side impact configuration, vehicle #2 was rotated in a counterclockwise direction and subsequently overturned in a side-over-side configuration. The vehicle rolled approximately 6 quarter turns before coming to rest on its roof a police reported distance of 91.4m (300') west of the initial point of impact.

The air bag equipped Dodge Caravan was displaced in a clockwise direction and was deflected onto the grass median. The momentum of the vehicle allowed it to travel a police reported distance of 30.2m (99') before it came to rest parallel to the roadway, facing in an easterly direction.

COLLISION SEQUENCE (CONT'D.)

Post-Crash:

Final Rest - The driver of the 1991 Dodge Caravan relinquished control of the vehicle at impact. The Caravan was deflected in a clockwise direction onto the grass median where it came to rest facing in an easterly direction. Vehicle #2 overturned on the concrete road surface and came to rest on its roof. At final rest, vehicle #2 was blocking the outboard westbound travel lane and was facing in a northwesterly direction, diagonal to the roadway.

Driver Activities - The driver of the air bag equipped Dodge Caravan noted a smokelike substance (air bag discharge) within her vehicle as it came to rest. She initially thought that the vehicle was on fire. The driver immediately unfastened her active restraint system and opened the left front door and exited the vehicle. She waited on the grass median for police and rescue personnel to arrive on-scene.

The occupants of the overturned vehicle #2 were hanging upside down in the vehicle by the active belt systems. The driver smelled gasoline leaking from her vehicle and she began to panic. She stated that she had difficulty releasing the buckle assembly of her belt system due to her emotional state and not because of hardware malfunction. As the driver unbuckled her belt system, she crawled out of the vehicle through the left front door window opening. Her right front passenger unbuckled her restraint system without difficulty and exited the vehicle through the same opening.

Police Activities - The investigating police officer arrived on-scene approximately 17 minutes following the crash. He was assisted by several troopers from his department in diverting traffic around the crash scene. The travel lanes were obstructed by vehicle #2 and debris from both vehicles.

Rescue Activities - Two ambulances responded to the crash scene. EMTs provided initial treatment to the injured occupants, then transported them by ambulance to a local hospital. Both drivers were treated for their injuries and released. The right front occupant of vehicle #2 was admitted for treatment of her injuries.

Scene Clearance - A local towing service responded to the crash scene to remove the involved vehicles. Normal traffic flow was restored 1 hour and 10 minutes following the crash.

HUMAN FACTORS/OCCUPANT DATA

Air Bag Vehicle

Driver: 31 year old female

Height: 172.7 cm (68")

Weight: 56.25 kg (125 lbs.)

Active Restraint

System Usage: 3-point lap and shoulder belt

Usage Source: Vehicle inspection, police report, driver interview

Eyewear: Soft contact lenses, remained in place, not damaged

Vehicle Familiarity: 10 months

Route Familiarity: Daily

Trip Plan: En route to résidence from work

Manner of Leaving Scene: Ambulance

Type of Medical Treatment: Treated and released at a local hospital

DRIVER INJURIES

Injury	Severity (OIC/AIS)	Source
Thermal burn of the right anterior forearm, 7.6cm (3") x 3.8cm (1.5"), hair on forearm was singed	Minor (RRBI-1)	Air bag (Definite)
Contusion of the anterior aspect of the left forearm 17.8cm (7") x 5.1cm (2")	Minor (RLCI-1)	Air bag (Definite)
Contusions of the dorsal aspect of the left ring and 5th fingers	Minor (WLCI-1)	Upper air bag module flap (Probable)
Lumbar strain	Minor (BITM-1)	Impact force/restraint loading
Pain in left shoulder	N/A	Shoulder belt webbing (Definite)
Chest pain	N/A	Shoulder belt webbing (Definite)

DRIVER KINEMATICS

The driver of the 1991 Dodge Caravan was in a normal, upright seated position at impact with both hands bracing against the steering wheel at the 10 and 2 o'clock positions. Her seat was adjusted to a rearward position, 5.1cm (2") from the full rearward position and the seat back was set to a near vertical position. The vehicle was equipped with a standard non-tilting steering column. The driver was properly wearing the active 3-point lap and shoulder belt webbing. Belt usage was supported by driver and police statements, driver injury patterns, the lack of interior occupant contact points, and by routine usage wear marks that were visible on the latchplate. There was no evidence of driver loading on the active belt system.

The driver responded to the 1 o'clock impact force by moving forward and slightly to her right with respect to the decelerating vehicle. The driver's air bag deployed and initially contacted the anterior aspects of the driver's forearms. She was wearing a short sleeve white blouse and the hot gas within the bag burned the anterior aspect of her right forearm and singed the hair on the arm. The burn was approximately 3.8-7.6cm (1.5×3 ") in size and was located on the mid area of the forearm. (The driver stated that the minor severity burn resembled a sunburn and subsequently peeled 3 days post-crash.) She also sustained a $5.1 \times 17.8 \text{ cm}$ (2×7 ") contusion of the anterior aspect of the left forearm from contact with the deploying air bag. The upper left corner area of the air bag module flap probably contacted the driver's left ring and 5th finger which resulted in contusions to the dorsal aspect of the fingers. She also sustained a small contusion under the rings on her left ring finger from module flap contact.

The driver subsequently loaded the active belt webbing which was locked by the inertia reel retractor. Her loading force against the belt webbing resulted in pain of the anterior left shoulder and mid chest pain. Although not confirmed by contact evidence, the driver's upper torso and facial areas probably contacted the deployed air bag which, in combination with the active belt system, prevented her from contact with interior components and further injury. She did, however, sustain lumbar strain from the impact force and subsequent restraint loading.

The driver's left knee possibly contacted the knee bolster at the base of the steering column. Although no injury occurred, a small diameter scuff mark was noted to the bolster.

The driver noted a smoke-like substance within the vehicle immediately following the crash. She stated that the substance had a foul odor much like sulphur. In fear of a vehicle fire, she immediately exited the Dodge Caravan from the left front door. The driver noted black and brown soot on her new white nursing uniform. She attempted to wash the material from the clothing; however, the substance did not wash out and appeared to have burned the clothing. The driver discarded the cotton-polyester blend uniform.

Vehicle #2

Driver: 36 year old female

Height: 170.2cm (67")

Weight: 58.5 kg. (130 lbs.)

Active Restraint

System Usage: 3-point lap and shoulder belt system

Usage Source: Police report, driver interview, vehicle inspection

Manner of Leaving Scene: Ambulance

Type of Medical Treatment: Treated and released at a local hospital

DRIVER INJURIES

Injury	Severity (OIC/AIS)	Source
Contusion of the lateral aspect of the left thigh above the knee	Minor (TLCI-1)	Left door panel/ armrest (Definite)
Abrasions of the dorsal aspect of the left elbow	Minor (ELAI-1)	Road surface (Definite)
Abrasion of the lateral aspect of the left shoulder	Minor (SLAI-1)	Road surface (Definite)
3.8cm (1.5") laceration of the left parietal scalp above the ear (12 sutures)	Minor (HLLI-1)	Flying side glass (Probable)
Lacerations of both knees	Minor (KLLI-1, KRLI-1)	Shattered glass, post- crash exit from vehicle (Probable)

DRIVER KINEMATICS

The driver of vehicle #2 was in a normal seated position at impact. She was fully restrained by the active 3-point lap and shoulder belt system. Belt usage was supported by driver and police statements, heavy routine wear marks on the latchplate, the post-crash position of the belt webbing (jammed retractor), and the lack of contact points and/or ejection of the driver.

DRIVER KINEMATICS (CONT'D.)

At the initial impact with the air bag equipped Dodge Caravan, the driver of vehicle #2 responded to the 10 o'clock impact force and moved to her left and slightly forward. Her left lateral thigh contacted the left door panel and/or armrest which resulted in a contusion to the thigh, above the knee. Her left hip and shoulder areas probably contacted the left door panel which did not result in injury or contact evidence. The driver also loaded the active belt webbing; however, her trajectory was limited by the belt and the door and no injury resulted.

During the subsequent rollover, the left side glass shattered and contacted the left parietal scalp of the driver which resulted in a 3.8cm (1.5") laceration of the scalp above the ear. Her left arm and shoulder areas were ejected from the vehicle and contacted the concrete road surface. As a result of road contact, the driver sustained abrasions of the left elbow and left lateral shoulder. She again loaded the active belt system which prevented her from interior contact and probable ejection from the vehicle.

The vehicle came to rest on its roof and the driver immediately attempted to exit the vehicle. She stated that she had difficulty unfastening the restraint system as she panicked when she smelled gasoline. There were no mechanical problems with the buckle assembly of the belt system. As the driver crawled out of the vehicle, her knees were probably lacerated by shattered glass that came to rest on the headliner of the vehicle. A large blood stain was noted to the headliner directly above the driver's seated area. There were no visible contact points to the lower instrument panel area and no sharp objects that could have produced the knee lacerations.

The driver exited the vehicle through the left front door window opening. She was subsequently transported to a local hospital where she was treated for her injuries and released. She stated that the 3-point manual belt system saved her life and the life of her daughter.

PASSENGER DATA

Vehicle #2

Right Front Passenger: 14 year old female

Height: 154.9cm (61")

Weight: 56.25 kg. (125 1bs.)

Active Restraint

System Usage: 3-point lap and shoulder belt system

Usage Source: Police report, driver interview, vehicle inspection

Manner of Leaving Scene: Ambulance

Type of Medical Treatment: Admitted to a local hospital for treatment of injuries

Hospital Stay: 10 days

PASSENGER INJURIES

Injury Severity (OIC/AIS) Source

Crushing injury of the Serious (QLNW-3) Crushed between the

left foot right A-pillar and the concrete road surface

rasion to the dorsal Minor (QLAI-1) Road surface/A-pillar

Abrasion to the dorsal aspect of the left foot

PASSENGER KINEMATICS

The right front passenger of vehicle #2 was in a normal seated position pre-crash as stated by the driver of the vehicle. She was properly restrained by the active 3-point lap and shoulder belt system. Belt usage was confirmed by driver statements, heavy routine wear marks on the latchplate, blood stains on the belt webbings, and the lack of ejection of the right front passenger. There was no loading evidence on the belt system.

The passenger was displaced to her left by the initial impact force with the air bag equipped Dodge Caravan. She loaded the active belt webbing and the left fold-down armrest of her captain's chair. The belt system limited her trajectory and prevented her from contact with interior components.

During the subsequent rollover event, the right front passenger's left foot was thrust outboard of the vehicle through the right door window opening. The side glass was shattered during the rollover sequence. Her foot was crushed between the right upper A-pillar/door window frame and the concrete road surface. Fragments of her sneaker were found embedded in the pillar/window frame juncture and in the wind-shield trim gasket. As a result of the contact sequence, she sustained a large abrasion of the dorsal aspect of the right foot and a crushing injury of the foot which involved multiple metatarsal fractures.

The active belt system restrained the driver in her seated area and prevented her from complete ejection and serious or fatal injuries. As the vehicle came to rest, the passenger unfastened the belt system and crawled out of the left front door window opening. She was transported by ambulance to a local hospital where she was admitted for 10 days for treatment of her injuries.

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SELECTED PRINTS



Pre-Crash Trajectory Of The 1991 Dodge Caravan.



Vehicle Departs Roadway And Enters The Grass Median.



Vehicle's Trajectory Across The Grass Median.



1991 Dodge Caravan Enters The Westbound Traffic Lane
And Impacts The 1988 Dodge Caravan.





Trajectory Of The 1988 Dodge Caravan.



Final Rest Area Of The 1988 Dodge Caravan.



Frontal View Of The 1991 Dodge Caravan.



Direct Contact Damage To The Front Bumper Facia.



Separated Front Bumper Facia With Road Abrasions Across Entire Width.



Left Front Three-Quarter View.



Perpendicular View Showing The Extent Of Crush.



Damaged Left Front Air Bag Crash Sensor.



Right Front Three-Quarter View.



Perpendicular View Of The Right Frontal Area.



Vehicle's Interior And The Deployed Driver's Air Bag.



Deployed Driver's Air Bag.



Forward View Of The Driver's Position And The Deployed Air Bag.



Driver's Left Knee Contact.



Driver's Active 3-Point Belt System.



Frontal View Of The 1988 Dodge Caravan.



Left Front Three-Quarter View.



Initial Impact Damage To The Left Side Of The 1988 Caravan.



Longitudinal View Showing The Extent Of Crush.



Right Side View.



Right Front Three-Quarter View.



Rollover Damage To The Roof Area Of The 1988 Caravan.



Sneaker Fragments In The Right A-Pillar/Door Window Frame.



Driver's Seated Area And Contact Points.



Driver's Seat And Active Restraint System.



Right Front Occupant's Seat Position And Active Belt System.

SLIDE INDEX

Slide No(s).	Description
1	Accident schematic
2	Air bag driver's injury mannequin
3	Driver #2's injury mannequin
4	Passenger's injury mannequin
5-7	Pre-crash trajectory of the air bag equipped 1991 Dodge Caravan
8	Vehicle departs left roadedge onto grass median
9,10	1991 Dodge Caravan crosses grass median
11	Vehicle enters the westbound travel lane and impacts vehicle #2
12-14	Vehicle #2's path of travel
15	Frontal view of the 1991 Dodge Caravan
16	Separated front bumper facia
17	Direct contact damage on left side of facia
18,19	Longitudinal views showing the lateral displacement
20	Perpendicular views showing the extent of crush
21	Left front three-quarter view
22	Left side view
23	Rear view
24	Right rear three-quarter view
25	Right front three-quarter view
26	Perpendicular view of the right frontal area
27,28	Damaged left front air bag crash sensor
29	Right front crash sensor
30	Overall view of the driver's seated area and the deployed air bag
31	Air bag venting ports and upper module flap
32	Closeup view of the deployed air bag with fold lines

SLIDE INDEX (CONT'D.)

Slide No(s).	Description
33	Tether reinforcement
34	Air bag identification numbers
35	Upper module flap and odometer reading
36	Lower module flap
37	Knee bolster
38	Probable left knee scuff.
39,40	Driver's active restraint system
41	Latchplate of the driver's belt system
42,43	Forward views of the Caravan's interior
44	Frontal view of the 1988 Dodge Caravan
45	Road abrasions to the top surface of the vehicle's hood
46	Left front three-quarter view
47	Left side view
48,49	Close-up views of the initial impact damage
50	Left rear three-quarter view
51	Longitudinal view showing the extent of crush
52	Right side view
53	Right front three-quarter view
54	Contact damage to the roof area
55	Sneaker fragments in the right A-pillar/door window frame
56-58	Driver's seated area
59	Blood on the headliner of the vehicle
60,61	Driver's active belt system
62	Latchplate of the driver's belt system
63	View across to the right front passenger's seated area
64	Passenger's seat and the active belt system
65	Latchplate for the passenger's active belt system































































































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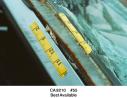
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APPENDIX A

Police Accident Report

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COMMONWEALTH OF PENNSYLVANIA

POLICE ACCIDENT SUPPLEMENTAL

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INCIDENT	Pation Reservation	Section of the sectio	9. ACCIDENT		10. DAY OF W	
NUMBER			DATE	142	12 NUMBER	
2. AGENCY NAME			11. TIME OF DAY		OF UNITS	
3, STATION.	- And - Africa Market	4. PATROL	13. # KILLED	14. # NUURED 3	15. PRIV. PRO ACCIDEN	
PRECINCT S. INVESTIGATOR	The state of the s	BADGE	20.			COOE
		NUMBER BADGE	21. MINICIPALITY		· · · · · · · · · · · · · · · · · · ·	CODE
8. APPROVED BY		NUMBER	A REAL PROPERTY.			101
UNIT #:	- COMPLETE ON	ILY THE INFORMA	HON THAT HAS	CHANGED SI	ICE ORIG	nal report
	37. REG.	38. STATE	58. DRIVER NAME			• • • • • • • • • • • • • • • • • • • •
PARKED	PLATE		50. DRIVER	· · · · · · · · · · · · · · · · · · ·		•
OUT-OF-STATE VIN		·	ADDRESS 80. CITY, STATE			· · · · · · · · · · · · · · · · · · ·
40. OWNER			a ZIPCODE			on Bullouse
41. OWNER		,	81. SEX	62 DATE OF BIRTH		63. PHONE
ADDRESS 42 CITY, STATE			64, COMM VEH	85. DRIVER	66. DRIVER	
# 7IPCODE 43. YEAR	144, MAKE		67. CARRIER	CLASS	S. S. #	
,	77,170	T 40 MIGHT 40 40 27			:	
45. MODEL (NOT BODY TYPE)	· .	46. INSURANCE Y N UNK		<u></u>		
(47)BODY	48 SPECIAL USAGE	49. VEHICLE OWNERSHIP	69. CITY, STATE & ZIPCODE			· · · · · · · · · · · · · · · · · · ·
TYPE (50.)INITIAL IMPACT	(51)VEHICLE	52.)TRAVEL	70. USDOT #	ICC #	<u> </u>	PUC#
POINT	STATUS (S4.) DRIVER	SPEED 55. DRIVER	72.WEHICLE	(73.)CARGO		74. GVWR
GRADIENT	PRESENCE	CONDITION	CONFIG.	(76.) HAZ ARDOU	· · · · · · · · · · · · · · · · · · ·	77. RELEASE OF HAZ MAT
'58, DRIVER' NUMBER	NTIFY PRECIPITATING EVENT	57. STATE	AYIES	MATERIALS		Y D N D UNK D
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(LC Lois In			117-12 Th	E lert	luse .	a The
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7	SOING WEST.		has.			
	TERVIEW CONCLU				kor k	AUI & SCD
For	is office the		TE VEHICLES	Strange Company		
30.00			•			
/77	thus was RE	- PRENERO		ins.		
	PANY		· .		94. 1	NVESTIGATION COMPLETE
INFORMATION POLI	CY					YES 🔀 NO 🗌
NO NO)		BACE: 4			VESTIGATING AGENCY

POLICE ACCIDENT REPORT

Overlay Sheet - 1

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ACCIDENT LOCATION

- & 28. TYPE HIGHWAY
- 0 NOT PHYSICALLY DIVIDED
- 1 DIVIDED HIGHWAY MEDIAN STRIP WITHOUT TRAFFIC BARRIER
- 2 DIVIDED HIGHWAY MEDIAN STRIP WITH TRAFFIC BARRIER
- N ONE WAY TRAFFIC NORTH
- S ONE WAY TRAFFIC SOUTH
- E ONE WAY TRAFFIC EAST
- W-ONE WAY TRAFFIC WEST
- . & 29. ACCESS CONTROL
- 1 NO CONTROLS (UNLIMITED ACCESS)
- 2 FULL CONTROL (ONLY RAMP ENTRY AND EXIT)
- 8 OTHER
- 9 UNKNOWN

34. CONSTRUCTION ZONE

- 0 NOT APPLICABLE
 - CONSTRUCTION ZONE
 - 2 MAINTENANCE ZONE
- 3 UTILITY COMPANY WORK
- 9 UNKNOWN

TRAFFIC CONTROL DEVICE

- 0 NO CONTROLS
- 1 FLASHING SIGNALS
- 2-TRAFFIC SIGNAL
- 3 STOP SIGN
- 4 YIELD SIGN
- 5 RR CROSSING
- 6 POLICE OFFICER OR **FLAGMAN**
- 7 FLASHING SCHOOL ZONE
- 8 OTHER
- 9 UNKNOWN

主题的对象对称。 INIT INFORMATION FIELDS

: BODY TYPE

AUTOMOBILES

- 01 CONVERTIBLE
- 02 2 DOOR
- 03 3 DOOR (HATCH BACK, 2 DR)
- 04 4 DOOR
- 05 5 DOOR (HATCH BACK, 4 DR) 06 - STATION WAGON
- 07 HATCH BACK
 - NUMBER DOORS UNKNOWN

- 47. BODY TYPE (CONTINUED) **AUTOMOBILES CONTINUED**
 - 08 OTHER AUTOMOBILE
 - 09 UNKNOWN AUTOMOBILE
 - 10 AUTOMOBILE BASED PICK-UP
 - 11 AUTOMOBILE BASED PANEL

 - 12 SHORT UTILITY
 - 13 LARGE LIMOUSINE
 - 14 THREE WHEEL AUTO OR DERIVATIVE

MOTORCYCLES

- 20 MOTORCYCLE
- 21 MOPED
- 27 THREE WHEEL MOTORCYCLE OR MOPED
- 28 MINIBIKE, MOTORSCOOTER
- 29 UNKNOWN MOTORCYCLE

BUSES

- 30 SCHOOL BUS
- 31 CROSS COUNTRY/INTERCITY
- 32 TRANSIT BUS
- 38 OTHER BUS
- 39 UNKNOWN BUS TYPE

- 40 VAN
- 41 VAN COMMERCIAL CUTAWAY
- 42 VAN BASED MOTORHOME
- 48 OTHER VAN TYPE
- 49 UNKNOWN VAN TYPE

LIGHT TRUCKS (GVWR < 10,000#)

- 50 PICK UP
- 51 PICKUP WITH SLIDE IN CAMPER
- 52 PICKUP BASED MOTORHOME
- 53 CAB CHASSIS BASED
- 54 TRUCK BASED PANEL
- 55 TRUCK BASED STATION WAGON
- 56 TRUCK BASED UTILITY
- 58 OTHER LIGHT TRUCK
- 59 UNKNOWN LIGHT TRUCK TYPE
- 67 STATIONWAGON BASE BODY TYPE UNKNOWN
- UTILITY BASE BODY TYPE UNKNOWN
- 69 UNKNOWN LIGHT TRUCK

MEDIUM/HEAVY TRUCKS

- 70 SINGLE UNIT STRAIGHT TRUCK
- 73 MEDIUM/HEAVY TRUCK BASED MOTORHOME
- 74 TRUCK TRACTOR (CAB)
- 75 UNKNOWN IF SINGLE UNIT OR COMBINATION TRUCK
- CAMPER OR MOTORHOME
- **UNKNOWN TRUCK TYPE**
- 79 UNKNOWN TRUCK TYPE

(CONTINUED) 47. BODYTYPE OTHER MOTORIZED VEHICLE

- 80 SNOWMOBILE
- 81 FARM EQUIPMENT
- 82 ATV
- 83 CONSTRUCTION EQUIPMENT
- 88 OTHER UNSPECIFIED VEHICLE
- 89 UNKNOWN OTHER MOTORIZED VEHICLES

NON-MOTORIZED UNITS

- 90 UNICYCLE, BICYCLE, TRICYCLE
- 91 OTHER PEDALCYCLE (BIG WHEEL)
- 92 UNKNOWN PEDALCYCLE
- 93 HORSE AND BUGGY
- 94 HORSE AND RIDER

TRACK VEHICLES

- 95 TRAIN
- 96 TROLLEY

IF NOTHING ELSE

- 98 OTHER BODY TYPE
- 99 UNKNOWN BODY TYPE

48. SPECIAL USAGE

- 0 NOT APPLICABLE
- 1 PUPIL TRANSPORT
- 2 FIRE VEHICLE
- 3 AMBULANCE
- 4 OTHER EMERGENCY VEHICLE
- 5 POLICE VEHICLE
- 6 TRACTOR TRAILER
- 7 TWIN TRAILER
- 11- COMMERCIAL PASSENGER
- 12 TOWING PASSENGER VEHICLE
- 13 TOW TRUCK
- 14 TOWING UTILITY TRAILER
- 15 TOWING MOBILE OR MODULAR HOME
- 16 TOWING CAMPER
- 20 MODIFIED VEHICLE

49. VEHICLE OWNERSHIP

- 1 PRIVATE VEHICLE OWNED BY
- DRIVER 2 - PRIVATE VEHICLE OWNED BY
- **ANOTHER**
- 3 RENTED VEHICLE
- 4 STATE POLICE VEHICLE
- 5 PENNDOT VEHICLE
- 6 OTHER COMMONWEALTH VEH.
- 7 MUNICIPAL POLICE VEHICLE 8 - OTHER MUNICIPAL GOVT VEH
- 9 FEDERAL GOVERNMENT VEH.
- 10 COMMERCIAL VEHICLE
- 11 PUPIL TRANSPORT CARRIER 98 - OTHER
- 99 UNKNOWN

50. INITIAL IMPACT POINT

- - 0 NO IMPACT OR CONTACT
 - 1 12 CLOCK POINTS
 - 13 TOP
 - 14 UNDERCARRIAGE
 - 15 TOWED UNIT
 - 99 UNKNOWN
 - Æ, 6
- 51. VEHICLE STATUS
 - 0 NOT APPLICABLE
 - 1 LEGALLY PARKED
 - 2 ILLEGALLY PARKED ON ROAD
 - 3 ILLEGALLY PARKED OFF ROAD
 - 4 HIT AND RUN
 - 5 DISABLED FROM PREVIOUS ACCIDENT
- 52. TRAVEL SPEED
 - 00 STOPPED OR PARKED
 - 01 97 ACTUAL OR ESTIMATED **SPEED**
 - 98 98 MPH OR GREATER
 - 99 UNKNOWN

53. VEHICLE GRADIENT

- 1- LEVEL ROADWAY
- 2 UP HILL
- 3 DOWN HILL
- 4 SAG (BOTTOM OF HILL)
- 5 CREST (TOP OF HILL)

IF DRIVER PRESENCE = 2. THEN DO NOT ENTER DATA FOR THE OPERATOR.

- 54. DRIVER PRESENCE
 - 1 DRIVER OPERATED VEHICLE 2 - DRIVERLESS VEHICLE
 - 3 DRIVER LEFT SCENE (AFTER ACCIDENT)

- 55. DRIVER CONDITION
 - 1 APPEARED NORMAL 2 - HAD BEEN DRINKING
 - 3 ILLEGAL DRUG USE
 - 4 SICK
 - 5 FATIGUE 6 - ASLEEP
 - 7 MEDICATION 9 - UNKNOWN

POLICE ACCIDENT REPORT - Overlay Sheet - 2

80. TYPE OF INJURY - BLOCK I

2 - BLEEDING WOUND

4 - DISTORTED MEMBER

5 - BRUISES/ABRASIONS

9 - COMPLAINT OF PAIN

80. AREA OF APPARENT INJURY

97- OTHER INCAPACITATING INJURY

98 - OTHER NON-INCAPACITATING

3 - BROKEN BONES

0 - NO INJURY

6 - BURNS

7 - SWELLING

99 - UNKNOWN

- BLOCK J

1 - FACE

2 - HEAD

3 - NECK

4 - BACK

5 - ARM(S)

6 - LEG(S)

8 - INTERNAL

99 - UNKNOWN

- BLOCK K

- BLOCK L

9 - ENTIRE BODY

98 - OTHER AREAS

7 - CHEST/STOMACH

N - NOT APPLICABLE

80. INJURY INFORMATION SOURCE

A - OBSERVATION OF OFFICER

C - MEDICAL/PARAMEDICAL

B-STATEMENT FROM INDIVIDUAL

0 - NO INJURY

8 - LIMPING

1 - AMPUTATION

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72 VEHICLE CONFIGURATION

- 1 BUS
- 2 SINGLE UNIT- (2 AXLES, 6 TIRES)
- 3 SINGLE UNIT (3 + AXLES)
- 4-TRUCK TRACTOR (BOBTAIL)
- 5 TRUCK TRAILER
- 6 TRACTOR/SEMI-TRAILER
- 7-TRACTOR/DOUBLES
- 8 TRACTOR/TRIPLES
- 9 UNKNOWN HEAVY TRUCK

73. CARGO BODY TYPE

- 1 BUS
- 2 VAN / ENCLOSED BOX
- 3 CARGO TANK
- 4 FLATBED
- 5 DUMP
- 6 CONCRETE MIXER
- 7 AUTO TRANSPORT
- 8 GARBAGE / REFUSE
- 9 OTHER / UNKNOWN

76. HAZARDOUS MATERIALS

CODE THE 4 DIGIT HAZARDOUS MATERIAL CODE ON THE PLACARD OR

SELECT ONE OF THE FOLLOWING CODES TO REPRESENT THE PLACARD.

- 00 NOT APPLICABLE
 - 01 NON-FLAMMABLE GAS
 - 02 COMBUSTIBLE
 - 03 ORGANIC PEROXIDE
 - 04 CORROSIVE
 - 05 EXPLOSIVES "A"

 - 06 OXYGEN
 - 07 POISON
 - 08 EXPLOSIVES "B"

 - 09 CHLORINE
 - 10 OXIDIZER
 - 11 POISONOUS GAS
 - 12 FUEL OIL
 - 13 DANGEROUS
 - .14 RADIOACTIVE
 - 15 FLAMMABLE SOLID "W"
 - 16 FLAMMABLE
 - 17 FLAMMABLE GAS
 - 18 FLAMMABLE SOLID
 - 19 GASOLINE
 - 20 BLASTING AGENT
 - 98 OTHER NOT SIGNED
 - 99 UNKNOWN

OR

CODE THE 1 DIGIT HAZARDOUS MATERIAL CODE ON THE PLACARD

- 80. UNIT NUMBERS BLOCK A CODE UNIT NUMBERS AS RECORDED ON PAGE 1.
- **BO. SEAT POSITION BLOCK B**
 - 1 DRIVER
 - 2 MIDDLE FRONT
 - 3 RIGHT FRONT
 - 4 LEFT REAR
 - 5 MIDDLE REAR 6 - RIGHT REAR

 - 7 PEDESTRIAN
 - 8 OTHER SEAT POSITION
 - 9 UNKNOWN
- 80. SEX BLOCK C
 - M MALE F FEMALE
 - U UNKNOWN
- 80. AGE BLOCK D
 - CODE ACTUAL AGE, EXCEPT FOR
 - 1 FOR INFANTS UP TO AGE 2
 - 98 AGE 96 OR GREATER
 - 99 UNKNOWN

80. ACTIVE RESTRAINT TYPE

- BLOCK E
- **G-NONE OR PEDESTRIAN**
- 1 SHOULDER HARNESS ONLY
- 2 SEAT BELT ONLY
- 3 COMBINATION
- (HARNESS & BELT) 4 - CHILD RESTRAINT DEVICE
- 7 HELMET
- 8 OTHER
- 9 UNKNOWN

PERSONNEL

- 80. ACTIVE RESTRAINT USAGE - BLOCK F
 - 0 NOT APPLICABLE
 - 1 IN USE
 - 2 NOT IN USE
 - 9 UNKNOWN

80. PASSIVE RESTRAINT TYPE

- BLOCK G
- 0 NONE OR PEDESTRIAN
- 1 AIRBAG (DEPLOYED)
- 2 AIR BAG (NOT DEPLOYED)
- 3 AUTOMATIC SEAT BELT
- 8 OTHER
- 9 UNKNOWN

80. INJURY SEVERITY - BLOCK H

- 0 NO INJURY
- 1 DEATH
- 2 MAJOR INJURY
- 3 MODERATE INJURY
- 4 MINOR INJURY 9 UNKNOWN

0 - NOT APPLICABLE 1 - TOTALLY EJECTED

80. EJECTION/EXTRICATION

- 2 PARTIALLY EJECTED
- 3 PARTIALLY EJECTED REQUIRING **EXTRICATION**
- 4 EXTRICATION BY PERSONS LINKNOWN
- 5 EXTRICATION TWO OR MORE TYPES
- 6 EXTRICATION BY AMBULANCE OR RESCUE PERSONNEL
- 7 EXTRICATION BY POLICE
- 8 EXTRICATION BY SELF
- 9 UNKNOWN EJECTION
- OR EXTRICATION

80. INJURY TRANSPORTATION

- BLOCK M
- 0 NOT APPLICABLE
- 1 AMBULANCE (CONT'D ABOVE)

(CONTINUED FROM BELOW)

- BLOCK M
- 2 HELICOPTER
- 3 FIRE RESCUE VEHICLE
- 4 PRIVATE VEHICLE
- 5 POLICE VEHICLE
- 8 OTHER
- 9 UNKNOWN

81. ILLUMINATION

- 1 DAWN
- 2 DAYLIGHT
- 3 DARK STREET LIGHTS
- 4 DARK NO STREET LIGHTS
- 5 DUSK

82. WEATHER

- 0 NO ADVERSE CONDITIONS
- 1 RAINING
- 2 SLEET, HAIL, FREEZING RAIN
- 3 SNOWING
- 4 FOG, SMOKE
- 5 RAIN AND FOG

83. ROAD SURFACE CONDITIONS

- 1 DRY
- 2 WET
- 3 MUDDY
- 4 SNOW COVERED
- 5 ICE COVERED
- 6 PLOWED SNOW
- 7 SALTED & CINDERED
- 8 ICE PATCHES

91. PROBABLE USE

(ALCOHOL OR DRUGS)

- 0 NONE
- 1 ALCOHOL
- 2 CONTROLLED SUBSTANCES
- 3 OTHER DRUGS
- 4 BOTH ALCOHOL AND DRUGS
- 9 UNKNOWN

92. TYPE TEST

- 0 NOT APPLICABLE **MOTEST GIVEN**
- 1 BLOOD
- 2 · BREATH
- 3 URINE
- 4 TEST REFUSED
- 8 OTHER
- 9 UNKNOWN

93 RESULTS (ALCOHOL TEST)

CODE ACTUAL TEST RESULT E.G 197 GRAMS = 0.20% (MOVE

3 DECIMAL PLACES AND ROUND)

APPENDIX B

CRASHPC Output

(Damage Algorithm)

SUMMARY OF CRASHFC RESULTS (USING SPINOUT)

92-10

SPEED CHANGE		TOTAL (KPH)	LONG.(KPH)	LAT.(KPH)	ANG. (DEG)
(DAMAGE)	VEH #1	23.3	-21.1	-9.8	25.0
	VEH #2	22.8	-13.1	18.7	-55.0

ENERGY DISSIPATED BY DAMAGE VEH#1: 64602.2 JOULES VEH#2: 41102.6 JOULES

SUMMARY OF DAMAGE DATA VEHICLE # 1	(* INDICATES DEFAULT VALUE) VEHICLE # 2	
TYPECATEGORY 4	TYPECATEGORY 4	
STIFFNESSCATEGORY 7	STIFFNESSCATEGORY 4	
WEIGHT 1541.3 KGS	WEIGHT 1572.6 KGS	
CDCO1FLEW2	CDC10LDEW3	
L 154.9 CM.	L 330.5 CM.	
01 41.7 CM.	C1 4.4 CM.	
02 32.0 CM.	C2 14.6 CM.	
03 20.1 CM.	03 19.0 CM.	
04 9,9 CM.	C4 20.1 CM.	
05 2.3 CM.	C5 14.2 CM.	
(16)O CM.		
D	D	
RHO 1.00 *	RHO 1.00	×
ANG 25.0 DEG.	ANG	

DIMENSIONS AND INERTIAL PROFERTIES

A1		138.9	CM.	A2	:	138.9	CM.
B1		150.4	CM.	B2	****	150.4	[] Y _ n
TRI	¥#.	157.0	CM.	TR2	****	157.0	I N H
I 1	****	373422	.3 NEWT-SEC**2-CM	IZ		= 3810	05.1 NEWT-SEC**3
M 1		15.472	NEWT-SEC**2/CM	M2	===	15.786	NEWT-SEC**2/CM
XFi	****	251.0		XF2	::::	251.0	C.M.,
XR1	227	-289.6	CM,	XR2	===	-289.6	, M v
YS1	:: ::	97.8	©M.	YS2	*****	97.8	CM.

SUMMARY OF CRASHPC RESULTS (USING SPINOUT)

92-10

3PEED CHANGE		TOTAL (MPH)	LONG.(MPH)	LAT.(MPH)	ANG.(DEG)
(DAMAGE)	VEH #1	14.4	-13.1	-6.1	25.0
	VEH #2	14.2	-8.1	11.6	-55.0

ENERGY DISSIPATED BY DAMAGE VEH#1: 47641.8 FT-LB VEH#2: 30311.7 FT-LB

SUMMARY		AMAGE DAT VEHICLE #		(* IND		DEFAULT V	/ALUE)		
"YPE		CATEGORY	d.		TYPE	CA1	regory	4	
		CATEGORY	7		STIFFME	ESSCAT	regory	4	
WEIGHT			LBS.		WEIGHT		3467.0	LBS.	
T)C		OIFLEW2			CDC	1 OI			
		61.0	IN.		l		130.1	IN.	
	• • • • • • • • • • • • • • • • • • • •	16.4	IN.		C1		1.8	IN.	
<u> </u>		12.6	IN.		C2		5.8	IN.	
· · · · 3		7.9	IN.		co		7.5	IN.	
.4		3.9	IN.		[] 4		7.9	IN.	
(" E.J",		e C	TN.		C5	***************************************	5.6	IN.	
75		, O	IN.		C6		" ()	IN.	
)		-10.0			<u></u>		-15,1		
GH()		1.00	455		RHO		1 , ()()		46
:MG		25.0	DEG.		ANG		-55.0		
', y		-23.6	IN.						
			DIMENSIONS AND						
A1		54.7	IN.	A 2	1100	54.7	IN.		
3.1	*****	59.2	IN.	EZ	#22	59.2	IN.		
FR1	****	61.8	IM.	TR2	11.00	61.8	IN.		
Y 1	****		3 LB-SEC**2-IN	12	*****		3.5 LB-		
'역 1		8.835	LB-SEC**2/IN	MO	part)	9.015		-SEC**2	:/IN
₹ F 1	****	98.8	IN.	XF2	erock Color	98.8	IN.		
2 to 1	1.1.1	-114.0	IN.	XR2		-114.0			
7 8 1	207	38.5	IN.	YS2	*****	38.5	IN.		

APPENDIX C

Air Bag Supplement

SYSTEM READINESS LAMP (in Instrument Cluster)		AIRBAG VEHICLE FIRST HARMFUL EVENT	3
PRE-IMPACT LAMP CONDITION (1) Functioning/ProvedOut (2) inoperative (9) Unknown	1	(01) Fire or explosion (02) Immersion (03) Gas Inhalation (04) Fell from vehicle (05) Injured in vehicle (06) Other moncollision (specify):	
DRIVER'S REPORT OF PRE-IMPACT FLASHING (00) No Flashing Reported (01) Continuous Flashing (02) >Number of Flashes (11)	೦೦	(07) Overturn (08) Jackknife with intraunit damage Collision With: (09) Pedestrian (10) Pedalcyclist (11) Railway train (12) Animal (13) Motor vehicle in transport (same	
(11) (12) Constant Light (19) Flashing, Unkn Number (88) Not App (system removed) (99) Unknown PERIOD OF PRE-IMPACT FLASHING (0) No Flashing (1) Same Day as Impact (2) Prior Day (3) Prior Two Days (4) Prior Week (5) Prior Month (6) Over One Month (9) Unknown	0	roadway) (14) Motor vehicle in transport (other roadway) (15) Parked motor vehicle (16) Other type nonmotorist (specify): (17) Thrown or falling object (18) Boulder Collision with Fixed Object: (20) Building (21) Impact attenuator/Crash Cushion (22) Bridge pier or abutment (23) Bridge parapet end (24) Bridge rail (25) Guardrail (26) Concrete traffic barrier (27) Median barrier (28) Other longitudinal barrier (specify): (29) Highway/Traffic sign post	:
POST-IMPACT LAMP CONDITION (1) Functioning/ProvedOut (2) Inoperative No Power (9) Unknown POST-IMPACT FLASHING (00) No Flashing (01) Continuous Flashing (02)	<u>2</u>	(30) Overhead sign support (31) Luminaire Light support (32) Utility pole (33) Other post, pole, or support (specify): (34) Culvert (35) Curb (36) Ditch (37) Embankment-earth (38) Embankment-rock, stone or concrete (39) Fence (wooden, wire, chain link, etc.) (40) Wall (stone, rock, metal, etc.) (41) Fire hydrant (42) Shrubbery	
> Number of Flashes (11) (12) Constant Light (19) Flashing, Unkn Number (88) Not Appl (removed) (99) Unknown		 (43) Tree (44) Other fixed object (specify): (45) Pavement surface irregularity (pothole, grooved, grates) (99) Unknown 	

AIRBAG VEHICLE IMPACT-DAMAGE		AIRBAG SUPPLEMENT	AB-3
TIRBAG VEHICLE IMPACT SUMMARY		FIRST AIRBAG VEHICLE IMPACT:	
VEHICLE ROLE		CONFIGURATION	4
10) Non-collision 11) Striking Unit (2) Struck Unit 13) Both Striking and Struck 19) Unknown MANNER OF LEAVING SCENE (1) Driven (2) Towed-due to damage 13) Towed - not for damage 14) Towed - details unknown (5) Abandoned 19) Unknown	<u>2</u>	(0) Struck Object or Pedestrian (1) Rear-End (2) Head-On (3) Rear-to-Rear (4) Angle (5) Sideswipe - Same Direction (6) Sideswipe-Opposite Direct. (7) NonColl:eg Fell from Veh (8) NonImpact Deployment (9) Unknown CDC	AL/AA/)
NUMBER OF IMPACT EVENTS (8) 8 or more, (9) Unknown	<u> </u>		۲
ROLLOVER (0) No Rollover (1) First Event (2) Subsequent Event (3) Yes, UnknownEvent (9) Unknown VERRIDE/UNDERRIDE	0	PRIMARY/DEPLOYMENT. IMPACT: EVENT NUMBER TOTAL DELTA-V 14.4 mpl LONGITUDINAL DELTA-V-13.1 mpl CONFIGURATION	-1 -1 4 -1 4
(1) No over/underride (1) Override - 1st CDC (3) - Other CDC (4) Underride - 1st CDC (6) - Other CDC (9) Unknown AIRBAG VEHICLE DAMAGE CODES: (1) Yes, DAMAGED (2) No Damage (9) Unknown LEFT FRONT FENDER DAMAGE RIGHT FRONT FENDER DAMAGE SENTER TOP OF GRILLE DAMAGE FRONT BUMPER E.A. STATUS: Left (1) Normal Right (2) Extended (3) Partial Compression (4) Complete Compression (5) Not Applicable (9) Unknown		(0) Struck Object or Pedestrian (1) Rear-End (2) Head-On (3) Rear-to-Rear (4) Angle (5) Sideswipe - Same Direction (6) Sideswipe-Opposite Direct. (7) NonColl:eg Fell from Veh (8) NonImpact Deployment (9) Unkonwn CDC Ol-EEW-A OBJECT CONTACTED: 88 DOLGE CARA NOTES:	

NOTE DAMAGE AND CONTACT MARKS ON AIRBAG DIAGRAMS BELOW:

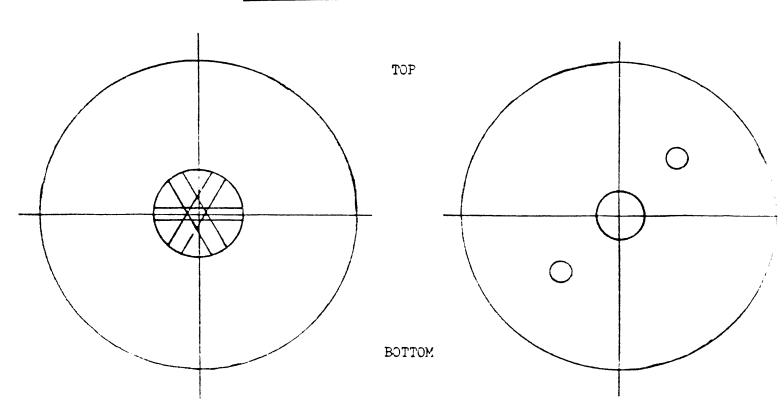
WIRING

CONNECTORS

KNEE DIVERTER

INDICATION OF DISCONNECTED OR LOOSE ELECTRICAL

NO EUIDENCE OF CONTACT



OCCUPANTS/DRIVER				AIRBAG	SUPPLEMENT	AB-
OCCUPANTS of AI NUMBER OF OCCUPA (8) 8 or NUMBER OF INJURE MAXIMUM AIS IN A (0) No Injury (1-6) AIS Severi (7) Injured, U (9) Unknown	NTS IN VEHIC more D PERSONS IRBAG VEHICL		NOTES:			
NUMBER OF DRIVER SOURCE OF BEST I (0) Not injure (1) Autopsy w/ (2) Hospital M (3) Emergency (4) Private ph (5) Lay Corone (6) EMS Person (7) Interviewe (8) Police (9) Unknown	INJURIES NJURY DATA d wo med. recordedical Recordedical Recorded Recorded Recorded Room only ysician, Clince Reported Reported Reported Reported Recorded	4 3 ords rds	•			
MAXIMUM AIS BY B	ODY REGION					
REGION Head/Neck/Face	MAX AIS	CONTACT				
Chest	-	-				
Abdomen	With the same time.					
Leg/Hips	***	entances experience				
Other (Arms)		41				
DRIVER MAXIMUM		77				
Portal	NONE NA					

DRIVER-PASSENGER			AIRBAG	SUPPLEMENT	A B-6
DRIVER BELT USAGE:	(1) Used	(2) Not Use	ed (9)) Unknown	
Evidence: <u>LACK OF</u>	OCCUPANT CONTAI	CTS, DRIVER T	NTERU, EL	ω	
DRIVER POSTURE:	Any Comment	s Recorded (1) Yes, ((2) No	
Describe driver's pos on head, torso, butto Did driver brace befo	cks, legs and	feet. Also no	including ote hand	specific co and arm pos	omments ition.
NORMAL POSTURE,	BOTH HANG	S ON WHEE	L AT	10 AUG 2	
O'CLOCK, (DEATH GR	TO ON WHEEL				
DRIYER FOREIGN OBJECT	S: Comments Re	ecorded (1) Ye	es, (2)	No	1
DRIVER FOREIGN OBJECT Was driver wearing co object at the time of cigarette, etc.)? Did	ontact lenses of the impact (p	or eyeglasses: backages on la	? Or hol	Iding any fo	le,
Was driver wearing coobject at the time of	ontact lenses of the impact (p lany lenses, o	or eyeglasses: backages on la bbjects, or je	? Or holap, pipe, ewelry p	Iding any for , food, bott lay any role	le, ?:
Was driver wearing coobject at the time of cigarette, etc.)? Did	ontact lenses of the impact (p lany lenses, o	or eyeglasses: backages on la bbjects, or jo	? Or holder, pipe, ewelry pi	Iding any for food, bott lay any role	le, ?:
Was driver wearing coobject at the time of cigarette, etc.)? Did	ontact lenses of the impact (p lany lenses, o	or eyeglasses: backages on la bbjects, or jo	? Or holder, pipe, ewelry pi	Iding any for food, bott lay any role	le, ?:
Was driver wearing coobject at the time of cigarette, etc.)? Did	ontact lenses of the impact (p lany lenses, o	or eyeglasses backages on la objects, or jo or DAMAGED,	? Or holder, pipe, ewelry pipe. REMAIN EN REMAIN	Iding any for, food, bott lay any role	le, ?:
Was driver wearing coobject at the time of cigarette, etc.)? Did	contact lenses of the impact (plany lenses, of the impact (plany lenses, of the interest of th	ecorded (1) Yes	or hold pipe, ewelry pipe, REMAIN EN , REMAIN es, (2) I ped with son smol	Iding any for food, bott lay any role ED IN EYES NO a supplement to the control of the contro	tal
Was driver wearing coobject at the time of cigarette, etc.)? Did WEARM! COMMENTS: Was the driver aware restraint system?	Comments Retail on the airba	ecorded (1) You any comments	or hold ap, pipe, ewelry place of the service of th	Iding any for food, bott lay any role any execution for the food of the food o	tal tc.?
Was driver wearing coobject at the time of cigarette, etc.)? Did WEARM!. COMMENTS: Was the driver aware restraint system? Did the driver comments.	Comments Relation the airba	ecorded (1) You any comments ag as a restricted (2)	or holder, pipe, ewelry pipe, REMAIN EN REMAIN es, (2) I ped with son smolaint system.	Iding any for food, bott lay any role as IN EYES NO a supplement tem? Descri	tal tc.?
Was driver wearing coobject at the time of cigarette, etc.)? Did WEARMA COMMENTS: Was the driver aware restraint system? Did the driver comments.	Comments Relation the airba	ecorded (1) You any comments ag as a restricted (2)	or holder, pipe, ewelry pipe, REMAIN EN REMAIN es, (2) I ped with son smolaint system.	Iding any for food, bott lay any role as IN EYES NO a supplement tem? Descri	tal tc.?
Was driver wearing coobject at the time of cigarette, etc.)? Did WEARMA COMMENTS: Was the driver aware restraint system? Did the driver comments.	Comments Rest of the impact (property) BRACELET Comments Rest of the the vehicle of the airbance of the airb	ecorded (1) You among as a restrict the mark of the market the mar	POR holder, pipe, ewelry pipe, REMAIN EN REMAIN es, (2) I ped with son smolaint system NO RI NO SERI	Iding any for food, both lay any role ED IN EYES NO a supplement tem? Description? Description in Examplement and Exampleme	tal tc.?

APPENDIX D

NASS Vehicle Forms
(Air Bag Vehicle)



U.S. Department of Transportation National Highway Traffic Safety

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM

Adminietration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number 2. Case Number - Stratum 9 2 - 1 0 3. Vehicle Number 0 1 VEHICLE IDENTIFICATION	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify): DONGE Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	Note: See variables 37 through 55 (Page 4) for information on Other Drugs 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:
6. Vehicle Model (specify): CARAVAN 7 PASSENCER Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	ACCIDENT RELATED 13. Speed Limit (00) No statutory limit Code posted or statutory speed limit (99) Unknown
 7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number 2846K25K6MR Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nine's OFFICIAL RECORDS	14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering right (97) No driver present (98) Other action (specify):
9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 10. Police Reported Travel Speed 5 5	(99) Unknown 15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact
Code to the nearest mph (NOTE: 00 means less than 0.5 mph) (97) 96.5 mph and above (99) Unknown	Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown
**** SKIP TO VARIABLE GV37 IF (SV07 DOES NOT EQUAL 01-49 ****

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (O2) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 10,000 lbs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravado, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 10,000 lbs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 10,000 lbs GVWR)
- (23) Van based motorhome (≤ 10,000 lbs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 10,000 lbs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500.)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 10,000 lbs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 10,000 lbs GVWR)

- (60) Step van (> 10,000 lbs GVWR)
- (61) Single unit straight truck (10,000 lbs < GVWR ≤ 19,500 lbs)
- (62) Single unit straight truck (19,500 lbs < GVWR ≤ 26,000 lbs)</p>
- (63) Single unit straight truck (> 26,000 lbs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	OCCUPANT RELATED		04 P. II
(0) Driver	sence in Vehicle not present		24. Rollover (0) No rollover (no overturning)
(1) Driver (9) Unkno			Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns
(00-96) C for th	f Occupants This Vehicle ode actual number of occupants his vehicle	01	(4) Rollover, 4 or more quarter turns (specify):
(97) 97 o (99) Unkn			(5) Holloverend-over-end (i.e., primarily about the lateral axis) (9) Rollover (overturn), details unknown
18. Number o	f Occupant Forms Submitted	01	OVERRIDE/UNDERRIDE (THIS VEHICLE)
V	EHICLE WEIGHT ITEMS		
19. Vehicle Co	urb Weight O 3	<u>, 3</u> 00	25. Front Override/Underride (this Vehicle) 26. Rear Override/Underride (this Vehicle)
10	0 pounds.		20. Hear Override/Oriderride (this Verlicle)
	ss than 1050 pounds ,500 pounds or more known		(0) No override/underride, or not an end-to-end impact
Source:		-	Override (see specific CDC) (1) 1st CDC
20. Vehicle Ca	weight to nearest	<u> </u>	(2) 2nd CDC (3) Other not automated CDC (specify):
(00) Less	pounds. than 50 pounds 0 pounds or more lown		Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC
RE	CONSTRUCTION DATA		(6) Other not automated CDC (specify):
21. Towed Tra	ailing Unit ved unit owed trailing unit	0	(7) Medium/heavy truck or bus override (9) Unknown
(9) Olikilo	wii		HEADING ANGLE AT IMPACT FOR
22 Document	ation of Trajectory Data		HIGHEST DELTA V
for This Vo (0) No (1) Yes	ehicle	<u>0</u>	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown
(For Highe	ion Condition of Tree or Pole st Delta V) Ilision (for highest delta V) with	0	27. Heading Angle For This VehicleO_6
tree or (1) Not da (2) Cracke (3) Tilted (4) Tilted (5) Uproot (6) Separa	pole maged d/sheared <45 degrees ≥45 degrees ed tree ted pole from base		28. Heading Angle For Other Vehicle <u>270</u>
(7) Pole re (8) Other (specify):		
(9) Unknov	wn	•	

Cate- gory	Configur- ation	ACCIDENT TYPES (Includes Intent)	
	A. Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFIC ROAD TRACTION LOSS WITH VEH., PED., ANIM. OTHER	05 S SPECIFICS UNKNOWN
Single Driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFIC ROAD TRACTION LOSS WITH VEH., PED., ANIM. OTHER	10 S SPECIFICS UNKNOWN
<u>-</u> -	C Forward Impact	PARKED VEH. STA. OBJECT PEDESTRIAN/ END SPECIFIC OTHER	16 S SPECIFICS UNKNOWN
Trafficway Direction	D Rear-End	20 22 24 26 28 30 (EACH of 29) STOPPED SLOWER DECEL. 27 25, 26, 27 29, 30, 31 SPECIFIC: 21, 22, 23 25, 27 29, 30, 31 OTHER	, , , , , , , , , , , , , , , , , , , ,
ll Same Trafficwa Same Direction	E Forward Impact	34 35 36 57 37 38 57 39 40 17 (EACTION LOSS TRACTION LOSS WITH VEH. WITH OBJECT OTHER	CH • 42) (EACH • 43)
	F. Sideswipe Angle		(EACH • 49) SPECIFICS UNKNOWN
ay tion	G Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS SPECIFICS UNKNOWN	
Same Trafficway Opposite Direction	H Forward Impact	57 59 61	CH • 62)(EACH • 63)
Ш	I. Sideswipe/ Angle	65 (EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER	
Change Trafficway Vehicle Turning	J. Turn Across Path	68 71 73 73 (EAC	
7.	K. Turn Into Path	76 \ /78 \ /80 \ 83 \ \ 82	CH • 84) (EACH • 85) IFICS SPECIFICS IFICS UNKNOWN
V. Intersecting Paths (Vehicle Damage)	L. Straight Paths	! 56 100	:H • 91) IFICS UNKNOWN
VI. Miscel- laneous	M. Backing Etc.	92 93 OTHER VEH. OR OBJECT SACKING VEH. 98 Other Accident Type 99 Unknown Accident Ty 00 No Impact	/pe

	Secondary Highest
29. Basis for Total Delta V (highest)	32. Lateral Component of Delta V \ominus 0 6
 Delta V Calculated (1) CRASH program—damage only routine (2) CRASH program—damage and trajectory routine (3) Missing vehicle algorithm 	(NOTE:00 means greater than0.5 and less than +0.5 mph)
Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of	(±97) ±96.5 mph and above (_99) Unknown 33. Energy Absorption <u>O 4 7 , 6 0 0</u>
collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data.	প্রিটিটি Nearest 100 foot-lbs (NOTE: 0000 means less than 50 foot-lbs) (9997) 999,650 foc⊞bs or more (9999) Unknown
(6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.	34. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear
COMPUTER GENERATED DELTA V	reasonable (2) Collision fits model — results appear high
Secondary Highest	 (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear
30. Total Delta V	reasonable
(NOTE: 00 means less than 0.5 mph) (97) 96.5 mph and above (99) Unknown	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
31. Longitudinal Component of Delta V	36. Is this an AOPS Vehicle? (0) No (1) Yes
(NOTE:00 means greater than0.5 and less than +_0.5 mph) (±97) ±96.5 mph and above (99) Unknown	
IS OLDMISS APPLICABLE FOR T	HIS VEHICLE? [] YES [] NO
IF YES: IS A COMPLETED OLDMISS PROGRA	M SUMMARY INCLUDED? [] YES [] NO

37.	Police Reported Other Drug Presence (0) No other drugs present	٥	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER
38.	(1) Yes (other drug present) (7) Not reported (8) No driver present (9) Unknown Police Reported Observation/Perception	0	DEC Observation/ Specimen Perception Test Test Results Results Narcotic Drug Depressant Drug Stimulant Drug 40. 0 41. 0 42. 0 43. 0 Stimulant Drug 44. 0 45. 0
	Test Type For Driver (0) No observation/perception test given (1) Drug recognition technician (DRT) determination using DEC process (2) Behavioral (3) Other physical observation/perception determination (specify):		Hallucinogen Drug 46. 0 47. 0 Cannabinoid Drug 48. 0 49. 0 Phencyclidine (PCP) 50. 0 51. 0 Inhalant Drug 52. 0 53. 0 Other Drug (Excluding 54. 0 55. 0 Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
	(4) DEC process available, unknown if determination made(5) DEC process not available, unknown if		Codes For Observation/Perception Test Results (0) No DEC observation/perception test given
V 16.	other observation/perception test given (7) Other observation/perception test (specify): (8) No driver present		 (1) Passed DEC observation/perception test (2) Failed DEC observation/perception test (3) DEC observation/perception test given—results unknown (8) No driver present (9) Unknown if DEC observation/perception
39.	Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test	0	test given Codes for Specimen Test Results
	(2) Urine test(3) Other specimen tests (specify):		(0) No specimen test given(1) Drug not found in specimen(2) Drug found in specimen
	(7) Unspecified specimen test(8) No driver present(9) Unknown if specimen test given		 (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given
			(a) character is appointed test given

OTHER DATA	61. Rollover Initiation Object ContactedOO
56. Driver's Zip Code	
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance	 (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction
(7) Hearse (8) Fire truck or car (9) Unknown	PRECRASH DATA
(o) Olikilowii	64. Pre-Event Movement (Prior to
ROLLOVER DATA If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	 (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle
59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type	 (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown	(98) No driver present (99) Unknown

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

- (00) No rollover (01-30) — Vehicle Number
- Noncollision
 - (31) Turn-over fall-over
 - (33) Jackknife
- Collision With Fixed Object
 - (41) Tree (≤ 4 inches in diameter)
 - (42) Tree (> 4 inches in diameter)
 - (43) Shrubbery or bush
 - (44) Embankment
 - (45) Breakaway pole or post (any diameter)
- Nonbreakaway Pole or Post
 - (50) Pole or post (≤ 4 inches in diameter)
 - (51) Pole or post (> 4 inches but ≤ 12 inches in diameter)
 - (52) Pole or post (> 12 inches in diameter)
 - (53) Pole or post (diameter unknown)
 - (54) Concrete traffic barrier
 - (55) Impact attenuator
 - (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object
- Collision with Nonfixed Object
 - (71) Motor vehicle not in-transport
 - (76) Animal
 - (77) Train
 - (78) Trailer, disconnected in transport
 - (88) Other nonfixed object (specify):
 - (89) Unknown nonfixed object
 - (98) Other event (specify):
 - (99) Unknown event or object

	Phechash Da	Tr (Gontinaca)
65.	Critical Precrash Event6	Pedestrian or Pedalcyclist, or Other Nonmotorist
		(80) Pedestrian in roadway
This	Vehicle Loss of Control Due To:	(81) Pedestrian approaching roadway
(01)	Blow out or flat tire	(82) Pedestrian - unknown location
	Stalled engine	(83) Pedalcyclist or other nonmotorist in roadway
	Disabling vehicle failure (e.g., wheel fell off)	(specify):
••	(specify):	(84) Pedalcyclist or other nonmotorist approaching
(04)	Non-disabling vehicle problem (e.g., hood flew	roadway (specify):
,,,,	up) (specify):	(85) Pedalcyclist or other nonmotorist—unknown
(05)	Poor road conditions (puddle, pot hole, ice, etc.)	location (specify):
(00)	(specify):	location (specify).
(06)	Traveling too fast for conditions	Object or Animal
	Other cause of control loss (specify):	(87) Animal in roadway
,,,,	o the output of control load topoolity?	(88) Animal approaching roadway
(09)	Unknown cause of control loss	(89) Animal—unknown location
,,,,,		(90) Object in roadway
This	Vehicle Traveling	(91) Object approaching roadway
(10)	Over the lane line on left side of travel lane	(92) Object—unknown location
(11)	Over the lane line on right side of travel lane	(92) Object—unknown location
(12)	Off the edge of the road on the left side	(00) Other edition process areas (asset)
(13)	Off the edge of the road on the right side	(98) Other critical precrash event (specify):
(14)	End departure	(99) Unknown
(15)	Turning left at intersection	(99) Unknown
(16)	Turning right at intersection	
(17)	Crossing over (passing through) intersection	
(19)	Unknown travel direction	For Connective Antique Ass.
(10)	CHRISTIAL FLATER CHECKION	For Corrective Actions Attempted see variable GV14
Othe	er Motor Vehicle In Lane	(Attemped Avoidance Manuever)
	Stopped	
	Traveling in same direction with lower speed	
(0.7	(i.e., lower steady speed or decelerating)	66. Precrash Stability After Avoidance Maneuver 2
(52)	Traveling in same direction with higher speed	(0) No avoidance maneuver
(53)	Traveling in opposite direction	(1) Tracking
(54)	In crossover	(2) Skidding longitudinally—rotation less than 30
	Backing	degrees
	Unknown travel direction of other motor vehicle	(3) Skidding laterally—clockwise rotation
,,	in lane	(4) Skidding laterally—counterclockwise rotation
		(7) Other vehicle loss-of-control (specify):
Othe	er Motor Vehicle Encroaching Into Lane	(7) Other verticle loss-of-control (specify):
(60)	From adjacent lane (same direction)—over left	(O) No driver assessed
(00)	lane line	(8) No driver present
(61)	From adjacent lane (same direction)—over right	(9) Precrash stability unknown
(01)	lane line	
1621	From opposite direction—over left lane line	
1631	From opposite direction—over right lane line	67. Precrash Directional Consequences of
164)	From parking lane	Avoidance Maneuver (Corrective Action)
		(0) No avoidance maneuver
(03)	From crossing street, turning into same direction	(1) Vehicle stayed in travel lane where avoidance
1661	From crossing street, across path	maneuver was initiated
(67)	From crossing street, across path	(2) Vehicle stayed on roadway but left travel lane
(07)	From crossing street, turning into opposite direction	where avoidance maneuver was initiated
1691		
(00)	From crossing street, intended path not known	(3) Vehicle stayed on roadway, not known if left
(70)	From driveway, turning into same direction	travel lane where avoidance maneuver was
(71)	From driveway, across path	initiated
(/2)	From driveway, turning into opposite direction	(4) Vehicle departed roadway
(/3)	From driveway, intended path not known	(5) Avoidance maneuver initiated off roadway
(74)	From entrance to limited access highway	(8) No driver present
(78)	Encroachment by other vehicle—details	(9) Directional consequences unknown
	unknown	or loog do loos di kilowii
	AAA IF TUE ODG ADDUGADU TATIOGA TA	

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), ***
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

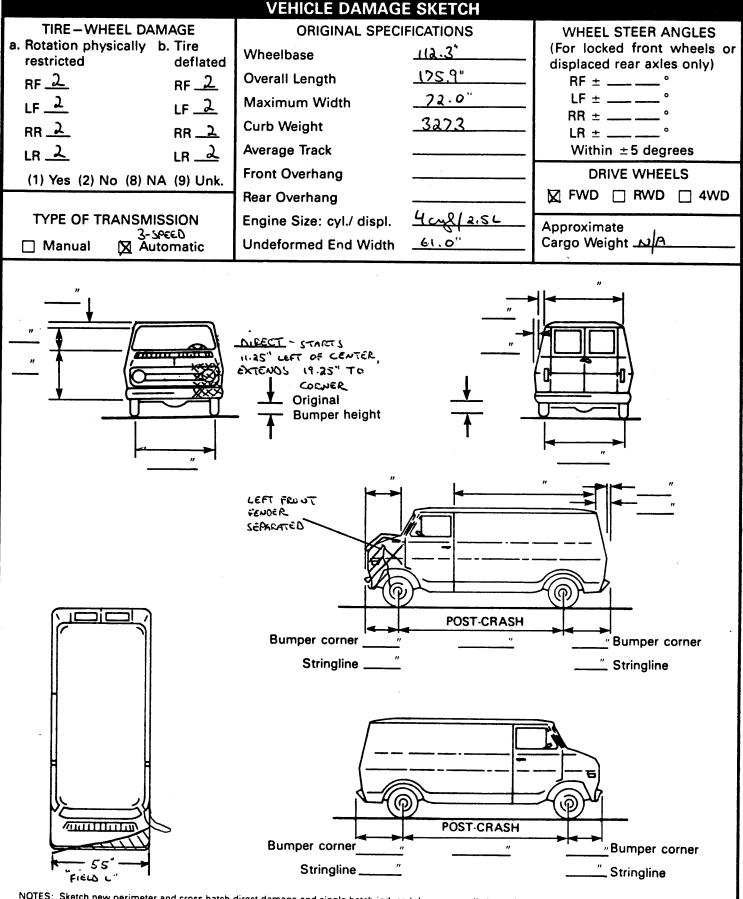
*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highwa Administration	ay Traffic Safety		EX	TERIOR	VEHIC	CLE F	ORM	NA ⁻		CCIDENT S WORTHINE			
1. Primary Sampling Unit Number				_ з.	Vehicle	Numbe	er						
2. Case N	Number - Str	atum	_ 9_	2-10	_	_							
			`	VEHICLE I	DENTI	FICATI	ON						
VIN <u>2</u>	<u> 8 4 6</u>	K 2	. <u>5 K</u>	6 M	<u>r –</u>				- !	Model Y	ear <u>9</u>		
Vehicle Ma	ike (specify):	<u> 100</u>	GE			Vehicle I	Model (s	pecify):	<u>CAR</u>	AUAN			
					CATO								
	end of the camaged axle			ct to the veh	icle long	gitudinal	center	line or b	umper o	corner fo	or end in	npacts	
Specific II	mpact No.		Location	of Direct Da	mage			Lo	ocation (of Field	L		
	<u> </u>	BUMP	ER FACIA	11.25 -	30,5"	\odot			TH 0F	BUM	PER		
		05	CENTEL	.			RE-	BAR					
	ļ			CRUS	SH PRO	TEILE							
NOTES: I	dentify the p	lane at	which the (len at	humner	ahove	humnei	r at sill	above	
	sill, etc.) and					CONOTT	(O. g ., at	Dampo	, 45010	bumpo	., at o,	ubo vo	
N	Measure and	docume	ent on the v	vehicle diagr	am the	location	of max	imum cı	rush.				
N	Measure C1 1	to C6 fr	om driver to	o passenger	side in	front or	rear imp	oacts ar	nd rear t	o front i	in side		
į.	mpacts.												
	ree space va the individual												
	side taper, et									aper, sic	e protit	J31011,	
ι	Jse as many	lines/co	olumns as n	ecessary to	describ	e each o	damage	profile.					
Specific	Plane of In	npact		Damage	Field								
Impact Number	C-Measure	•	Width (CDC)	Max Crush	L	C ₁	C ₂	C₃	C₄	C _₅	C ₆	±D	
	BUMPER A	E-BAR	19.25"	19.625	55.0"	19.625	13.6á5°	8.25"	4.375	1.875	1.25"	D20.8 7	S
	FREE- SPACE			3.25		3.25	(.0	6 22°	0.5"	1.0	3,25"		
	FREE SPAC			3,43		2.42	(.0	(2,3/3	0.3	1.0	3,43		
	RESIDUAL C	rush	19.25	(6.375"	SS.O	16.375"	12.6 2 5"	'7.87S"	3.805"	0.875	0(-20)	Oio.8	þ
												<u> </u>	
						 	}		<u> </u>		 	 	
					<u> </u>								
				†									
				<u> </u>								<u> </u>	1

HS Form 435A (Rev. 1/92)



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by outside time to be a consequent of the consequence of

	CDC WORKSHEET									
		С	ODES FOR	OBJECT CON	NTA	ACTED				
(01-30)	- Vehicle Nu	mber		(5)	7)	Fence				
(0.00)						Wall				
Noncoli	ision			•	-	Building				
(31)	Overturn - re	ollover				Ditch or	culvert			
	Fire or explos	ion				Ground				
	Jackknife					Fire hydr	ant			
(34)	Other intrauni	it damage (specif	y):			Curb				
(35)	Noncollision i	niur.				Bridge	ed object (s	enocify):		
		ision (specify):								
(39)	Noncollision -	– details unknov	vn	(6	9)	Unknow	n fixed obje	ct		
(00)				Collis	sior	n with No	nfixed Obje	ct		
	n With Fixed C			(7)	1)	Motor ve	shicle not in			
		hes in diameter)				Pedestria				
	•	hes in diameter)				Cyclist o				
	Shrubbery or	bush		(7-	4)	Other no	nmotorist o	r conveyand	e	
(44)	Embankment								 	
(45)	Danalana an	ala an anak (an	P = == - 4 = = A			Vehicle o	occupant			
(45)	breakaway po	ole or post (any o	nameter)		-	Animal				
Nonbre	akaway Pole o	r Poet		•	-	Train	liccopporto	d in transpo	- +	
		1 1 03t ≤ 4 inches in dia	ameter)					ct (specify):		
		> 4 inches but :			Ο,	Other no	minked obje	ct (specify).		
	diameter)				9)	Unknow	n nonfixed	object		
		> 12 inches in c						•		
(53)	Pole or post (diameter unknov	vn)	(9	8)	Other ev	ent (specify	<i>(</i>):		
	Concrete traf			(9	9)	Unknow	n event or o	object		
	Impact attenu	iator barrier (includes (auardrail)							
(50)	(specify):		guaruran,							
		DEEODMA	TION OLASS	SIFICATION E		EVENIT N	LIMPED			
		DEFORMA	HON CLASS	SIFICATION E) I	EVENT IN	UNIDEN			
		441 441				(4)	(5)			
Accident Event		(1) (2) Direction	incremental	(3)		Specific ngitudinal	Specific Vertical or	(6) Type of	(7)	
Sequence	e Object	of Force	Value of	Deformation		r Lateral	Lateral	Damage	Deformation	
Number	Contacted	(degrees)	Shift	Location		ocation	Location	Distribution	Extent	
01	02	025	00	F			ϵ	ω	02	
							-	***********		
								-		
				· .						
	-					-				
									·	

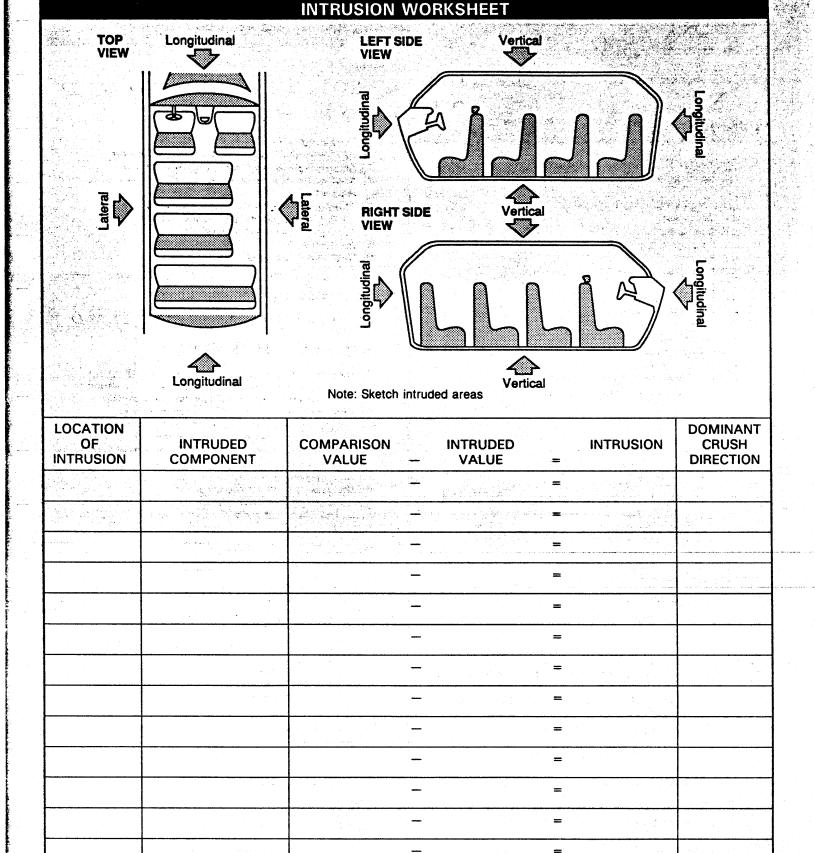
COLLISION DEFORMATION CLASSIFICATION HIGHEST DELTA "V" (4) (5) Accident (6) (1)(2)(3) Longitudinal Vertical or (7) Event Type of Deformation Sequence Object Direction Deformation or Lateral Lateral Damage Extent Number Contacted of Force Location Location Location Distribution 5. 0 2 6. 0 1 7. <u>F</u> 8.<u>L</u> 9._€_ 10.<u>ω</u> 11. <u>0</u> 2 4. 0 1 Second Highest Delta "V" 12.___ 13.__ 14.__ 15.__ 16.__ 17.__ 18. 19.____ **CRUSH PROFILE** The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN INCHES.) HIGHEST DELTA "V" 20. 21. 22. C_e_ C₄ C₆ C₂ C₃ ± D 055 04 0021 16 13 <u>08</u> 01 00 Second Highest Delta "V" 23. 24. 25. C₃ C₅ C₂ C₄ C₆ ±D 26. Are CDCs Documented 28. Original Wheelbase 1 2 2.3 27. Researcher's Assessment but Not Coded on The (12.3" Code to the of Vehicle Disposition 0 Automated File? (O) Not towed due to nearest tenth (O) No vehicle damage of an inch (1) Yes (1) Towed due to (9999) Unknown vehicle damage (9) Unknown



U.S. Department of Transportation

Personal Contraction

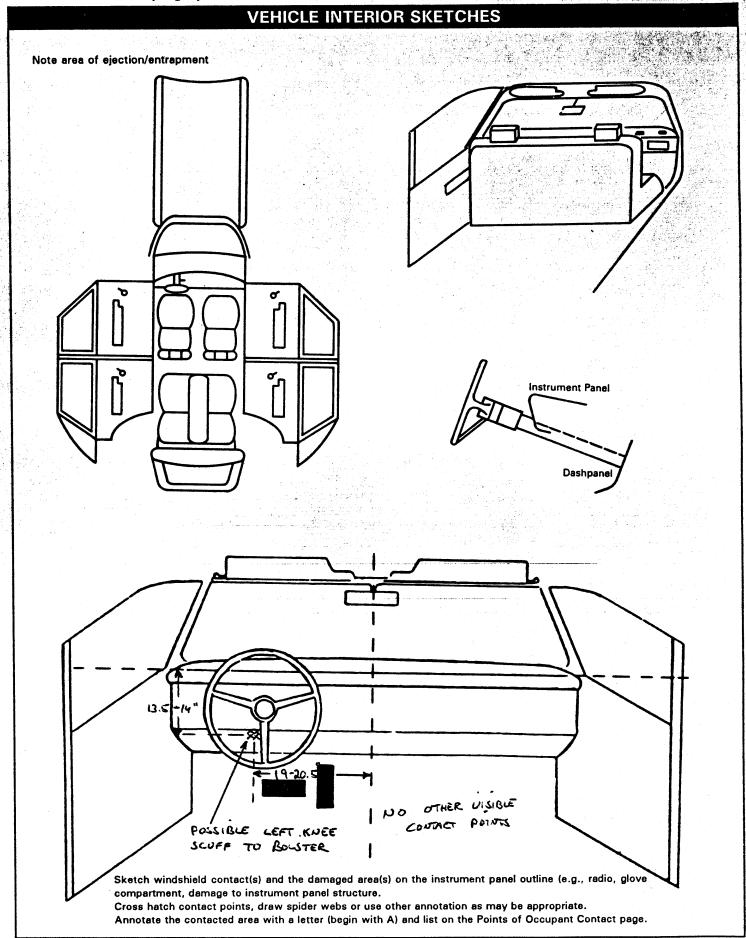
1. Primary Samalina Unit Numbe		GLAZING
		Glazing Damage from Impact Forces
2. Case Number - Stratum	42-46	15. WS <u>O</u> 16. LF <u>O</u> 17. RF <u>O</u> 18. LR <u>O</u> 19. RR <u>O</u>
3. Vehicle Number	<u>-0 1</u>	20. BL O 21. Roof 8 22. Other 8
INTEGRITY	Y	(0) No glazing damage from impact forces
Passenger Compartment Integ (00) No integrity loss	grity	(2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces
Yes, Integrity Was Lost Through (01) Windshield		(5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces
(02) Door (side)		(7) Glazing removed prior to accident
(03) Door/hatch (back door) (04) Roof		(8) No glazing (9) Unknown if damaged
(05) Roof glass	and the second s	- Aller Control of the Control of th
(06) Side window		Glazing Damage from Occupant Contact
(07) Rear window (backlight) (08) Roof and roof glass		the same of the sa
(09) Windshield and door (side)		23. WS O 24. LF O 25. RF O 26. LR O 27. RR O
(10) Windshield and roof (11) Side and rear window (side win	dan and kaalijaka	28. BLO 29. Roof O 30. OtherO
(11) Side and rear window (side window ())	KIOW AIKI DACKIIGILI	
(13) Door and side window		(0) No occupant contact to glazing or no glazing (1) Glazing contacted by occupant but no glazing damage
(98) Other combination of above (sp	ecify):	(2) Glazing in place and cracked by occupant contact
(99) Unknown	an Albert And The Control	(3) Glazing in place and holed by occupant contact
を受ける。 1 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日		(4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
		(5) Glazing out-of-place by occupant contact and holed by
Door, Tailgate or Hatch Opening		occupant contact (6) Glazing disintegrated by occupant contact
5. LF (6. RF (7. LR 08.	PP I O TC/LL I	(9) Unknown if contacted by occupant
		If No Glazing Damage And No Occupant Contact or No
(0) No door/gate/hatch		Glazing, Then Code IV31 Through IV46 As Ø
(1) Door/gate/hatch remained closed (2) Door/gate/hatch came open duri		
(3) Door/gate/hatch jammed shut		Type of Window/Windshield Glazing
(8) Other (specify):		■ 기계 : 기계
(9) Unknown		31. WS <u>O</u> 32. LF <u>O</u> 33. RF <u>O</u> 34. LR <u>O</u> 35. RR <u>O</u>
		36. BL O 37. Roof O 38. Other O
		(0) No glazing contact and no damage, or no glazing
Damage/Failure Associated with I		(1) AS-1 — Laminated
Opening in Collision. If IV05-IV0	$9 \neq 2$, Then code Ø	(2) AS-2 — Tempered (3) AS-3 — Tempered-tinted
10. LF O11. RF O12. LR O1	3. RR O 14. TG/H O	(4) AS-14 — Glass/Plastic
		(8) Other (specify):
(O) No door/gate/hatch or door not	opened	(9) Unknown
Door, Tailgate or Hatch Came Open	During Collision	
(1) Door operational (no damage)(2) Latch/striker failure due to damage	8 0 8	Window Precrash Glazing Status
(3) Hinge failure due to damage	- -	39. WS O 40. LF O 41. RF O 42. LR O 43. RR O
(4) Door structure failure due to da		
(5) Door support (i.e., pillar, sill, roo etc.) failure due to damage		44. BL <u>O</u> 45. Roof <u>O</u> 46. Other <u>O</u>
(6) Latch/striker and hinge failure d(8) Other failure (specify):	ue to damage	(0) No glazing contact and no damage, or no glazing
(o) Other landre (specify):		(1) Fixed (2) Closed
(9) Unknown		(3) Partially opened
		(4) Fully opened
		(9) Unknown



	OCCUPANT AREA INTRUSION									
Not	e: If no intrusions	s, leave varial	oles IV47-IV	/86 blank.	INTRUDI	NG COMPONENT				
	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction	(01) (02)	Components Steering assembly Instrument panel left				
lst	47	48.	49.	50	(04) (05) (06) (07)	Instrument panel center Instrument panel right Toe pan A-pillar B-pillar College NO TNTRUSION				
2nd	51	52.	53.	54	(09) (10)	C-pillar D-pillar Door panel (side) Roof (or convertible top)				
3rd	55.	56	57	58	(13) (14) (15)	Roof side rail Windshield Windshield header Window frame				
4th	59	60	61	62	(17) (18) (19)	Floor pan (includes sill) Backlight header Front seat back				
5tł	ı 63.	64	65	. 66	(21) (22)	Second seat back Third seat back Fourth seat back Fifth seat back				
6tł	67	68	69	70	(25)	Seat cushion Back door/panel (e.g., tailgate) Other interior component (specify):				
7tl	r 71	72	73	74.	(28)	Side panel - forward of the A-pillar Side panel - rear of the A-pillar				
8tl	າ 75	76	_ 77	78.	(30) (31)	Components Hood Outside surface of this vehicle (specify):				
9tl	n 79	80	81	82	(33)	Other exterior object in the environment (specify): Unknown exterior object Catastrophic Intrusion of unlisted component(s)				
10t	n 83	84	85	86	1	(specify): Unknown				
LOC	CATION OF INTE	RUSION				TUDE OF INTRUSION				
	Front Seat (11) Left (12) Middle (13) Right Second Seat (21) Left (22) Middle	(42) (43) (97)	Left Middle Right Catastrop Other end	closed	(2) ; (3) ; (4) ; (5) ; (6) ; (7) (≥ 1 inch but < 3 inches ≥ 3 inches but < 6 inches ≥ 6 inches but < 12 inches ≥ 12 inches but < 18 inches ≥ 18 inches but < 24 inches ≥ 24 inches Catastrophic Unknown				
	(23) Right Third Seat (31) Left (32) Middle (33) Right	(99) Unknown		(1) (2) (3) (7)	ANT CRUSH DIRECTION Vertical Longitudinal Lateral Catastrophic Unknown				

	STEERIN	NG RIM/SPOKE DEFO	RMATION	Į.			
COMPARISON VALUE - DAMAGE VALUE - DEFORMATION							
				ser harmet et trette Tomber posteri kante y			
					and the second		
	en e			And the second s			

87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown	92. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest inch. (0) No steering rim deformation (1-5) Actual measured value (6) 6 inches or more (8) Observed deformation cannot be measured (9) Unknown 93. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation
88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.	Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke
89. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.	(06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown INSTRUMENT PANEL
90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.	94. Odometer Reading S786 miles—Code mileage to the nearest 1,000 miles (000) No odometer (001) Less than 1,500 miles (300) 299,500 miles or more (999) Unknown
91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.	
	96. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown
	97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown



Contact		Interior Component Contacted	Occupant No. If Known	Body Region If Known	Region If			
	A	(3	DELVER	Q KNEE	Scuff	2.5		
	В	40	NEIVER	TORSO	NO EVIDENCE OF LONDING	1 11		
	C	45	DRIVER	FACE	NO EVIDENCE OF LOADING	1 2 7 2 2		
	D							
	E	en er		a de la como de la com	and the second s	and the second s		
32 . G	F		· · · · · · · · · · · · · · · · · · ·		the contract of the second of	Applications		
Ž. s	G	in fator			are and the second	13.74		
	н 🦠		A THE PARTY		The state of the s	With the		
	1			The state of the s	and the second s	10		
	J		Carlo Britania		- Jacobahore de la companya della companya de la companya della co	4 Satrate (Mark		
	к			4-16-18-18-18-14-14-14-14-14-14-14-14-14-14-14-14-14-	renick mains with the Land State Sta	7.46		
	L				The state of the s	* 74. T . W.		
	M				part and the second sec			
	N		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					

CODES FOR INTERIOR COMPONENTS

_	2	\sim	•	*	

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, Apillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, Apillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following:
 frame, window sill, A pillar,
 B pillar, or roof side rell.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A pillar, B pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify):
- (47) Interior loose objects

- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second secon	AUTOMATIC RESTRAINTS		
NOTES	below. Restraint systems sh Assessment Form.	olicable front seat position. The attribution ould be assessed during the vehicle in AIR BAGS	ite for the variables may be found spection then coded on the Occupan	
F		Left	Right	
1	Availability/Function		0	
RS	Deployment		0.2	
T	Failure		0	
(0) 1 (1) 1 Non-1 (2) 1	System Availability/Function Not equipped/not available Air bag functional Air bag disconnected (specify): Air bag not reinstalled Unknown	Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown	Did Air Bag System Fail? (O) Not equipped/not available 3. (1) No (2) Yes (specify): (9) Unknown	
		AUTOMATIC BELTS Left	Right	
	Availability/Function		0	
F	Use		0	
I R	Туре	o the second		
S	Proper Use			
•	Failure Modes			
Availab (0) (1) (2) (3) (4) (9) Autom (0) (2) (3)	atic (Passive) Belt System ility/Function Not equipped/not available 2 point automatic belts 3 point automatic belts Automatic belts - type unknown -functional Automatic belts destroyed or rendered inoperative Unknown atic (Passive) Belt System Use Not equipped/not available/destroyed or rendered inoperative Automatic belt in use Automatic belt in use (manually disconnected, motorized track inoperative) Automatic belt use unknown Unknown	Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):	Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in u (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify) (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify) (9) Unknown	
Autom (0) (1) (2)	natic (Passive) Belt System Type Not equipped/not available Non-motorized system Motorized system Unknown	(8) Other improper use of automatic belt system (specify):		

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

Same San		Left	Center	Right
F	Availability			great of an art are t
R	Use	04		(1) (1) (2) (2) (2) (3)
ST	Failure Modes	simple and the statement of the statemen		1. 2000 ATTHE SA
Ş	Availability		. · · · · · · · · · · · · · · · · · · ·	41,7
S E C O	Use		·安宁·	-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Ň	Failure Modes	and the second second	conserve survivority of the survivority	
T	Availability		3	4 - 4
1	Use 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			Trought To the Till
R D	Failure Modes		See	
0 T H	Availability			M's
	Use		Act of the second	
R	Failure Modes		The state of the s	

Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

CHILD	SAFFTY	SEAT FIELD	ASSESSMENT

	seat is present enter						
the occupant's nun	nber using the codes	listed below.	Complete a co	umn for eac	h child safe	ety seat	present.

Oc	cupant Number				reids be	
	Type of Child Safety Seat					
2.	Child Safety Seat Orientation					The state of the s
3.	Child Safety Seat Harness Usage				The second second	
4.	Child Safety Seat Shield Uasge					
5.	Child Safety Seat Tether Usage	The state of the s				
6.	Child Safety Seat	Specif	y Below for E	ach Child Safe	ety Seat	

- 1. Type of Child Safety Seat
 - (0) No child safety seat
 - (1) Infant seat
 - (2) Toddler seat
 - (3) Convertible seat
 - (4) Booster seat
 - (7) Other type child safety seat (specify):
 - (8) Unknown child safety seat type
 - (9) Unknown if child safety seat used
- 2. Child Safety Seat Orientation
 - (00) No child safety seat

Designed for Rear Facing for

This Age/Weight

- (01) Rear facing
- (02) Forward facing
- (08) Other orientation (specify):
- (09) Unknown orientation

Designed for Forward Facing for This Age/Weight

- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify):
- (19) Unknown orientation

Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight

- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify):
- (29) Unknown orientation
- (99) Unknown if child safety seat used

- 3. Child Safety Seat Harness Usage
- 4. Child Safety Seat Shield Usage
- 5. Child Safety Seat Tether Usage
 Note: Options Below Are Used for Variables 3-5.
 - (00) No child safety seat

Not Designed with Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

٠.	(Specify make/model and occupant number)							

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left -	Center 👙	Right
F	Head Restraint Type/Damage			
l R	Seat Type	10	r 2004 : '- '# ' \	Chalo ::
S	Seat Performance	Tribition of the state	The Livery	
	Seat Orientation		498766.一个分数型	May an correct
S	Head Restraint Type/Damage	机设计一致规范		C FO
E C	Seat Type	100 2 16 16 16 16 16 16 16 16 16 16 16 16 16	03	63
0 N	Seat Performance		1	
Ď	Seat Orientation			and purchase and
Т	Head Restraint Type/Damage	**** O******	THE CHARGE	-4 O ***
Ĥ	Seat Type	03	03	2
Ř	Seat Performance			endina
D	Seat Orientation		1	Fig. 7
o	Head Restraint Type/Damage		A Company of the Comp	N. T.
Ĭ	Seat Type	学好学学学的		Carrier Commence
E	Seat Performance		Control of the second	
R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This **Occupant Position**

- No head restraints
- Integral no damage (1)
- Integral damaged during accident
- (3)
- Adjustable no damage Adjustable damaged during accident (4)
- (5) Add-on - no damage
- Add-on damaged during accident
- (8) Other Specify):
- Unknown

Seat Type (this Occupant Position)

- (00) No seat
- **Bucket** (01)
- (02)**Bucket with folding back**
- **Bench** (03)
- (04)Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07)Split bench with folding back(s)
- (80) Pedestal (i.e., column supported)
- (09)Other seat type (specify):
- (10)Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (O) No seat
- (1) No seat performance failure(s)
- Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- No seat
- Forward facing seat
- (2) Rear facing seat
- Side facing seat (inward)
- Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN)**

EJECTION No [/] Yes [] Describe indications of ejection and		olved in p	artial ejection	(s):		
				. A. 2. No. 100		W
					建筑数据 类的	737
Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						
Ejection (1) Complete ejection (1) Partial ejection (3) Ejection, Unknown degree (9) Unknown Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(9) Unknown (1) Door/ (2) Nonfi: (3) Fixed	dium hatch/tailga ked roof st glazing	ecify):	(8) C (9) U Mediur to Imp (1) C (2) C (3) I		
ENTRAPMENT No [Yes Pescribe entrapment mechanism:						
				5		

APPENDIX E

NASS Occupant Forms
(Air Bag Vehicle)



National Highway Traffic Safety

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

dministration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number 4. Occupant Number	11. Occupant Posture (0) Normal posture (1) Abnormal posture (specify): (9) Unknown EJECTION/ENTRAPMENT
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown
6. Occupant's Sex (1) Male (2) Female (9) Unknown 7. Occupant's Height 68'' Code actual height to the nearest inch. (99) Unknown 8. Occupant's Weight 125 LBS Code actual weight to the nearest pounds. (999) Unknown	13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown 10. Occupant's Seat Position Front Seat (11) Left side (12) Middle (13) Right side (14) Other (specify):	14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown
(15) On or in the lap of another occupant Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown 16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapped (1) Not entrapped (1) Entrapped (9) Unknown
(98) Other seat (specify):(99) Unknown	83

RESTRAINT SYSTEM AND SEAT EVALUATION	21. Air Bag System Availability/Function
17. Manual (Active) Belt System Availability	(0) Not equipped/not available (1) Air bag
(0) None available (1) Belt removed/destroyed	
(2) Shoulder belt	Non-functional (2) Air bag disconnected (specify):
(4) Lap and shoulder belt	
(5) Belt available—type unknown	(3) Air bag not reinstalled (9) Unknown
Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed)	
(7) Lap belt (shoulder belt destroyed/removed)	22. Air Bag System Deployment
(8) Other belt (specify):	(O) Not equipped/not available(1) Air bag deployed during accident (as a
(9) Unknown	result of impact)
	(2) Air bag deployed inadvertently just prior to accident
18. Manual (Active) Belt System Use (00) None used, not available, or belt	(3) Air bag deployed, accident sequence undetermined
removed/destroyed	(4) Nondeployed
(O1) Inoperative (specify):	(5) Unknown if deployed (6) Air bag deployed as a result of a noncollision
(O2) Shoulder belt (O3) Lap belt	event during accident sequence (e.g., fire,
(04) Lap and shoulder belt	explosion, electrical) (9) Unknown
(O5) Belt used—type unknown (O8) Other belt used (specify):	
(12) Shoulder belt used with child safety seat	23. Did Air Bag System Fail?
(13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child	(0) Not equipped/not available (1) No
safety seat	(2) Yes (specify):
(15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat	(9) Unknown
(specify): (99) Unknown if belt used	
	Note: See Variables 44 through 48 (Page 5)
19. Proper Use of Manual (Active) Belts (0) None used or not available	for Information on Automatic Belts
(1) Belt used properly	24 Police Reported Restrict Hea
(2) Belt used properly with child safety seat	24. Police Reported Restraint Use (0) None used
Belt Used Improperly (3) Shoulder belt worn under arm	(1) Police did not indicate restraint use (2) Shoulder belt
(4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person	(3) Lap belt
(6) Lap belt worn on abdomen	(4) Lap and shoulder belt (5) Belt used, type not specified
(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	(6) Child safety seat
(8) Other improper use of manual belt system	(7) Other or automatic restraint (specify):
(specify):	(8) Restrained, type unknown
(9) Unknown	(9) Police indicated "unknown"
20. Manual (Active) Belt Failure Modes During Accident	OS Hard Barrella Torrella
(0) No manual belt used (1) No manual belt failure(s)	25. Head Restraint Type/Damage by Occupant dat This Occupant Position
(2) Torn webbing (stretched webbing not	(0) No head restraints (1) Integral—no damage
included) (3) Broken buckle or latchplate	(2) Integral – damaged during accident
(4) Upper anchorage separated(5) Other anchorage separated (specify):	(3) Adjustable—no damage (4) Adjustable—damaged during accident
	(5) Add-on—no damage
(6) Broken retractor (7) Combination of above (specify):	(6) Add-on—damaged during accident (8) Other (specify):
(8) Other manual belt failure (specify):	
(9) Unknown	(9) Unknown
157 5	

	Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket	30. Child Safety Seat Orientation On No child safety seat
	 (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions 	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):
	(07) Split bench with separate back cushions (08) Pedestal (i.e., column supported) (09) Other seat type (specify):	(09) Unknown orientation Designed For Forward Facing for This Age/Weight
	(10) Box mounted seat (i.e., van type) (99) Unknown	(11) Rear facing (12) Forward facing (18) Other orientation (specify):
27.	Seat Performance (this Occupant Position)	(19) Unknown orientation
	 (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding looks as "seat back" failed 	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing
	 (3) Seat back folding locks or "seat back" failed (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion 	(22) Forward facing (28) Other orientation (specify): (29) Unknown orientation
	(specify):	(99) Unknown if child safety seat used
	(7) Combination of above (specify): (8) Other (specify):	31. Child Safety Seat Harness Usage <u>O</u> O
	(9) Unknown	32. Child Safety Seat Shield UsageO_O
	CHILD SAFETY SEAT	33. Child Safety Seat Tether Usage Note: Options below applicable to Variables 0A31-0A33.
28.	Child Safety Seat Make/Model	(00) No child safety seat
	(000) No child safety seat Applicable codes are found in your NASS CDS	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether
	Data Collection, Coding and Editing (950) Built-in child safety seat	added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market
	(997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used	harness/shield/tether added (09) Unknown if harness/shield/tether added or used
29.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used
	 (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): 	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
	(8) Unknown child safety seat type (9) Unknown if child safety seat used	(99) Unknown if child safety seat used

	INJURY CONSEQUENCES	38.	Working Days LostOS
34.	Injury Severity (Police Rating) <u>2</u>		Code the number of days (up through 60) that the occupant
	(O) O No leton		lost from work due to the accident
	(0) O - No injury (1) C - Possible injury		(00) No working days lost
	(2) B - Nonincapacitating injury		(61) 61 days or more
	(3) A - Incapacitating injury		(62) Fatally injured (97) Not working prior to accident
	(4) K - Killed		(99) Unknown
İ	(5) U - Injury, severity unknown(6) Died prior to accident		
	(9) Unknown	20	Time to Death
		39. 	Time to Death Code number of hours from time of
25	Treatment - Mortality		accident to time of death up through 24
35.	Treatment - Mortality (0) No treatment		hours. If time of death is greater than 24
	(1) Fatal		hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through
	(2) Fatal - ruled disease		30 days = 60
	Nonfatal		(00) Not fatal
1	(3) Hospitalization		(96) Fatal - ruled disease
	(4) Transported and released		(99) Unknown
1	(5) Treatment at scene - nontransported		
1	(6) Treatment later(8) Treatment - other (specify):	40.	1st Medically Reported Cause of Death O
		41	2nd Medically Reported Cause of Death OO
	(9) Unknown	l	
		42.	3rd Medically Reported Cause of DeathO O
36.	Type Of Medical Facility (for Initial Treatment) 2		number(s) for the medically reported
	(0) Not treated at a medical facility (1) Trauma center		injury(s) which reportedly contributed to
1	(2) Hospital		this occupant's death
	(3) Medical clinic		(00) Not fatal or no additional causes (97) Other result (specify):
	(4) Physician's office		(07) Other result (specify).
	(5) Treatment later at medical facility (8) Other (specify):		(99) Unknown
	(9) Unknown	43.	Number of Recorded Injuries for
		1	This Occupant O4
37.	Hospital Stay O		Code the actual number of injuries recorded for this occupant.
	(00) Not Hospitalized		(00) No recorded injuries
	Code the number of days (up through 60) that the occupant stayed in hospital.		(97) Injured, details unknown
	(61) 61 days or more		(99) Unknown if injured
	(99) Unknown		
		<u> </u>	
	•		
1			

	AUTOMATIC BELT SYSTEM	48. Automatic (Passive) Belt Failure Modes				
44.	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered	During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):				
	inoperative (9) Unknown	(7) Combination of above (specify):(8) Other automatic belt failure (specify):(9) Unknown				
45.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):				
1 .		(9) Unknown				
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	TRAUMA DATA 50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility				
47.	Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	(02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured				
	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen	51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given				
	 (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system 	52. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown				
	(specify):(9) Unknown	(97) Injured, details unknown (99) Unknown if injured				
	UPDATE CANDIDATE? OCCUPANT INJURY FORM INCLUDED WITH					
	*** STOP HERE *** IF THERE ARE NO RECORDED INJURIES (I.E., OA43 = 00,97,99)					

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

OCCUPANT INJURY FORM

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number	3. Vehicle Number O (
2. Case Number - Stratum 9 2 - 1 0	4. Occupant Number Ol

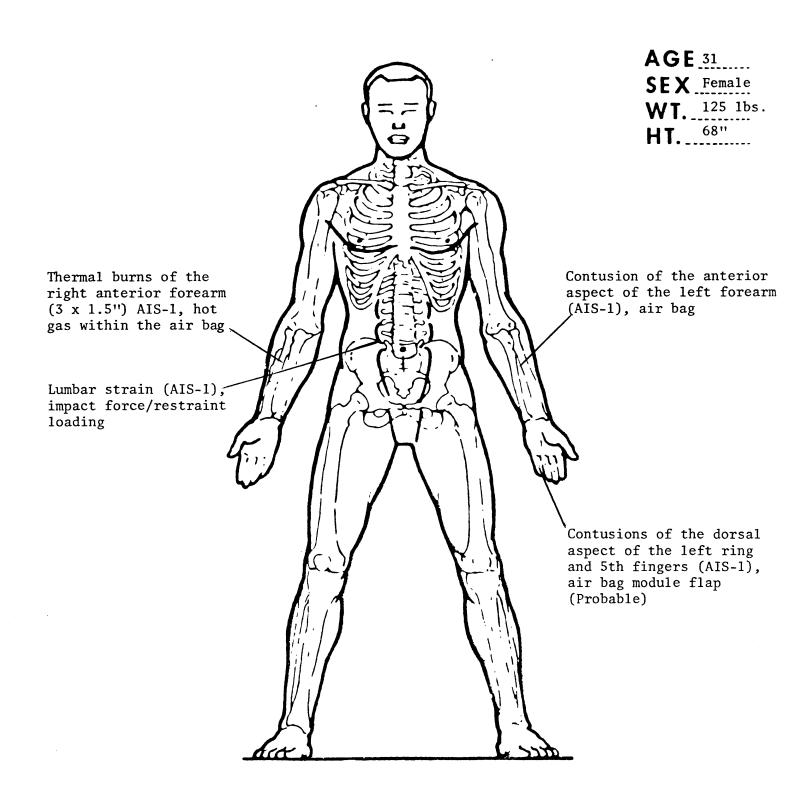
INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source			O.I.CA.I.	S			Injury	.	
	of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	- Injury Source	Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1st	ъ. <u>З.</u>	6. <u>(</u>	7. <u>K</u>	8. <u>B</u>	9.工_	10. <u>L</u>	11. <u>45</u>	12. <u>]</u>	13. 👢	14. <u>0</u> 0
2nd	15. <u>3</u>	16. <u>R</u>	17. <u>ட</u>	18. <u>C</u>	19	20. <u>l</u>	21. <u>45</u>	22. <u> </u>	23. <u>l</u>	24. <u>0</u> 0
3rd	25. <u>3</u>	26. <u>ట</u>	27. <u>L</u>	28. <u>C</u>	29 📜	30. 1	31. <u>45</u>	32. <u> </u>	33. <u>L</u>	34. <u>Q Q</u>
4th	35. <u>3</u>	36. <u>B</u>	37. <u>T</u>	38	39. <u>M</u>	40. <u> </u>	41. <u>92</u>	4 2. <u>\</u>	43. <u>2</u>	44. <u>00</u>
Бth	45	46	47	48	49	БО	51	62	5 3	54
6th	55.	56	57	58	59	60	61	62	63	64
7th	65.	66	67	68	69	70	71	72	73	74
8th	76	76	77	78	79	80	81.	82.	83	84
9th	85.	86	87	88	89	90	91	92.	93	94
10th	95	96	97	98	99	100	101	102	103	104

HS Form 433B (1/92)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.



SOURCE OF INJURY DATA

OFFICIAL

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (e.g., dishcarge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

INJURY SOURCE

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, Apillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, Apillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify):
- LEFT SIDE
- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- Right side window glass including one or more of the following: frame, window sill, A pillar, B pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify):_
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77)Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE

ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2)Probable
- (3) Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- Indirect contact injury (2)
- (3)Noncontact injury
- Injured, unknown source

OCCUPANT INJURY CLASSIFICATION

O.I.C. Body Region

- Abdomen
- (Q) Ankle-foot
- Arm (upper) (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H)Head-skull (U) Injured, unknown region
- (K)
- Leg (lower)
- (Y) Lower limbs(s) (whole or unknown part)
- (N) Neck-cervical spine Pelvic-hip (P)
- (S) Shoulder
- (T) Thigh
- Upper limb(s) (whole or (X) unknown part)
- Whole body Wrist - hand

- Aspect of Injury
- Anterior front (B) Bilateral (rib fracture only)
- (C) Central (1) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left (P)
- Posterior-back (R) Right
- (S) Superior-upper (W) Whole region

Lesion

(D)

- Abrasion
- Amputation
- **(V)** Avulsion (B)
- Burn (K) Concussion
- (C) Contusion (N)
- Crush (G) Detachment, separation

- Fracture and dislocation (7)
- (U) Injured, unknown lesion
- Laceration
- (0) Other Perforation, puncture (P)
- (R) Rupture
- (S) Sprain

System/Organ

- (T) Strain (E) Total severance, transection
- All systems in region
- (A) Arteries - veins (B) Brain
- (D) Digestive
- (E) Ears (0) Eve
- (H) Heart (U) Injured, unknown system
- (1) Integumentary
- (J) Joints. (K) Kidneys

- Liver
 - Muscles
 - (N) Nervous system Pulmonary-lungs (P)
 - (R) Respiratory (S) Skeletal
- (C) Spinal cord (Q) Spleen
- gland Vertebrae

Abbreviated Injury Scale

Thyroid, other endocrine

- (1) Minor injury
- (2) Moderate injury
- (3) Seriour injury (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable) Injured, unknown severity

APPENDIX F

NASS Vehicle Forms
(Vehicle #2)

National Highway Traffic Safety Administration	GENERAL VEH	ICLE FORM NATIONAL ACCIDENT SAMPLING CRASHWORTHINESS DATE	
3. Vehicle Number	92-10	 Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown 	0
4. Vehicle Model Year Code the last two digits of the m (99) Unknown 5. Vehicle Make (specify): DOGE Applicable codes are found in you NASS Data Collection, Coding an Editing Manual. (99) Unknown	odel year 1:	Note: See variables 37 through 55 (Page 4) for information on Other Dro 2. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:	ugs <u>} 6</u>
6. Vehicle Model (specify):	4 4 2	ACCIDENT RELATED	
CARAUAN SE Applicable codes are found in you NASS Data Collection, Coding an Editing Manual. (999) Unknown			5.5
7. Body Type Note: Applicable codes may be for the back of this page. 8. Vehicle Identification Number 2日 イド メリ	z (0 and Z)	(00) No impact (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering right	<u>oT</u>
OFFICIAL RECORD	/3	(97) No driver present (98) Other action (specify):	
 Police Reported Vehicle Disposition Not towed due to vehicle damage Towed due to vehicle damage Unknown 	nage	(99) Unknown	<u>6.5</u>
10. Police Reported Travel Speed Code to the nearest mph (NOTE: less than 0.5 mph) (97) 96.5 mph and above (99) Unknown		back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown	
**** SKIP TO VARIA	ABLE GV37 IF GV	07 DOES NOT EQUAL 01-49 ****	

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (O2) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 10,000 lbs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravado, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 10,000 lbs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 10,000 lbs GVWR)
- (23) Van based motorhome (≤ 10,000 lbs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 10,000 lbs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 10,000 lbs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 10,000 lbs GVWR)

- (60) Step van (> 10,000 lbs GVWR)
- (61) Single unit streight truck (10,000 lbs < GVWR ≤ 19,500 lbs)</p>
- (62) Single unit straight truck (19,500 lbs < GVWR ≤ 26,000 lbs)
- (63) Single unit straight truck (> 26,000 lbs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

OCCUPANT REI	_ATED	24 Pollows	u
16. Driver Presence in Vehicle (0) Driver not present		24. Rollover (0) No rollover (no overturning) - Rollover (primarily about the longitudinal axis	
(1) Driver present (9) Unknown		(1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns	37
17. Number of Occupants This Volumber of (00-96) Code actual number of for this vehicle (97) 97 or more	ehicle <u>O</u> <u>Q</u> of occupants	(4) Rollover, 4 or more quarter turns (specif	y):
(99) Unknown 18. Number of Occupant Forms S	Submissed 0.2	about the lateral axis) (9) Rollover (overturn), details unknown	
		OVERRIDE/UNDERRIDE (THIS VEHIC	E) ·
VEHICLE WEIGHT		25. Front Override/Underride (this Vehicle)	0
19. Vehicle Curb Weight 3(62 Code weight to nearest 100 pounds.	03,200	26. Rear Override/Underride (this Vehicle)	_0
(010) Less than 1050 pound (135) 13,500 pounds or moi (999) Unknown		(0) No override/underride, or not an end-to-end impact	
Source: NADA.		Override (see specific CDC) (1) 1st CDC (2) 2nd CDC	
20. Vehicle Cargo Weight Code weight to nearest 100 pounds.	<u>O, O</u> 00		
(00) Less than 50 pounds (97) 9,650 pounds or more (99) Unknown	LAR SEAT & STROLLER	Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC	
RECONSTRUCTIO	N DATA	(6) Other not automated CDC (specify):	
21. Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	<u>0</u>	(7) Medium/heavy truck or bus override (9) Unknown	
22. Documentation of Trajectory I	Data	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	
for This Vehicle (0) No (1) Yes	<u>o</u>	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown	
23. Post Collision Condition of Tre (For Highest Delta V)(0) Not collision (for highest d	0	27. Heading Angle For This Vehicle 27	0
tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	one vy with	28. Heading Angle For Other Vehicle <u>D</u> 6	
(9) Unknown			

Cate ·	Configur-			LABLE CUPY
gory	ation	ACCIDENT TYPES (Includes Intent)		
	A. Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPE	CIFICS	05 SPECIFICS UNKNOWN
I. Single Driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPE	CIFICS	10 SPECIFICS UNKNOWN
-	C. Forward Impact	PARKED VEH. STA. OBJECT PEDESTRIAN/ END SPE ANIMAL DEPARTURE OTH	CIFICS	16 SPECIFICS UNKNOWN
icway tion	D Rear-End	23 27 27 31	CIFICS	(EACH • 33) SPECIFICS UNKNOWN
II. Same Trafficway Same Direction	E Forward Impact	CONTROL/ CONTROL/ AVOID COLLISION AVOID COLLISION TRACTION LOSS TRACTION LOSS WITH VEH. WITH OBJECT	SPECIFICS OTHER	2) (EACH • 43) SPECIFICS UNKNOWN
	F. Sideswipe Angle	46 (EACH · 48) SPECIFICS OTHER	(EACH SPECIFIC	• 49) s unknown
/ay ction	G Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS OTHER SPECIFICS UNKNOWN		
Same Trafficway Opposite Direction	H Forward Impact	54 55 56 57 58 59 60 61 CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH. WITH OBJECT	(EACH • 6 SPECIFICS OTHER	SPECIFICS UNKNOWN
E	I. Sideswipe/ Angle	64 (EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER		
Change Trafficway Vehicle Turning	J. Turn Across Path	68 71 73 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS DIRECTIONS	(EACH • 74	SPECIFICS UNKNOWN
<u>></u>	K. Turn Into Path	TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS	(EACH • 84 SPECIFICS OTHER	SPECIFICS UNKNOWN
V. Intersecting Paths (Vehicle Damage)	L. Straight Paths	88 89 SPECIFICS OTHER	(EACH • 91 SPECIFICS U)
VI. Miscel- laneous	M. Backing Etc.	92 93 OTHER VEH. 98 Other Accident T BACKING VEH. 90 No Impact		

29. Basis for Total Delta V (highest)	Secondary Highest
Delta V Calculated	32. Lateral Component of Delta V 1 2
(1) CRASH program—damage only routine	[→] <u>II.6</u> Nearest mph
(2) CRASH program—damage and trajectory routine	(NOTE:00 means greater than
(3) Missing vehicle algorithm	-0.5 and less than +0.5 mph)
Delta V Not Calculated	(±97) ±96.5 mph and above (99) Unknown
(4) At least one vehicle (which may be this	<u></u>
vehicle) is beyond the scope of an acceptable reconstruction program, regardless of	33. Energy Absorption <u>0 3 0 , 3 0 0</u>
collision conditions.	
(5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision	30,311.7 Nearest 100 foot-lbs
conditions is beyond the scope of the CRASH	(NOTE: 0000 means less than 50 foot-lbs)
program or other acceptable reconstruction technique, regardless of adequacy of damage	(9997) 999,650 foc∷ibs or more (9999) Unknown
data. (6) All vehicle and collision conditions are within	
scope of one of the acceptable reconstruction	34. Confidence In Reconstruction Program
programs, but there is insufficient data available.	Results (For Highest Delta V) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(1) Collision fits model — results appear
COMPUTER GENERATED DELTA V	reasonable (2) Collision fits model — results appear high
Secondary Highest	(3) Collision fits model — results appear low
	(4) Borderline reconstruction — results appear reasonable
30. Total Delta V	
[석,교 Nearest mph	35. Type of Vehicle Inspection
(NOTE: 00 means less than	(0) No inspection (1) Complete inspection
0.5 mph) (97) 96.5 mph and above	(2) Partial inspection (specify):
(99) Unknown	
	36. Is this an AOPS Vehicle?
31. Longitudinal Component of + Delta V	(O) No
<u> </u>	(1) Yes
- 8.1 Nearest mph	
(NOTE:00 means greater than -0.5 and less than +0.5 mph)	
(± 97) ± 96.5 mph and above	
(<u>99)</u> Unknown	
IS OLDMISS APPLICABLE FOR T	
IF YES: IS A COMPLETED OLDMISS PROGRA	M SUMMARY INCLUDED? [] YES [] NO

		·	
37.	Police Reported Other Drug Presence (0) No other drugs present (1) Yes (other drug present)	0	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER
	(7) Not reported(8) No driver present(9) Unknown		DEC Observation/ Specimen Perception Test
38.	Police Reported Observation/Perception Test Type For Driver (0) No observation/perception test given (1) Drug recognition technician (DRT) determination using DEC process (2) Behavioral (3) Other physical observation/perception determination (specify):	<u>O</u>	Narcotic Drug 40. 0 41. 0 Depressant Drug 42. 0 43. 0 Stimulant Drug 44. 0 45. 0 Hallucinogen Drug 46. 0 47. 0 Cannabinoid Drug 48. 0 49. 0 Phencyclidine (PCP) 50. 0 51. 0 Inhalant Drug 52. 0 53. 0 Other Drug (Excluding 54. 0 55. 0 Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
	(4) DEC process available, unknown if determination made	-	Codes For Observation/Perception Test Results
	 (5) DEC process not available, unknown if other observation/perception test given (7) Other observation/perception test (specify): (8) No driver present 		 (0) No DEC observation/perception test given (1) Passed DEC observation/perception test (2) Failed DEC observation/perception test (3) DEC observation/perception test given—results unknown (8) No driver present (9) Unknown if DEC observation/perception
39.	Other Drug Specimen Test Type For Driver	0	test given
	(0) No specimen test given (1) Blood test		Codes for Specimen Test Results
	(2) Urine test(3) Other specimen tests (specify):		(0) No specimen test given (1) Drug not found in specimen
	(7) Unspecified specimen test	-	(2) Drug found in specimen (7) Specimen test given, results unknown or
	(8) No driver present(9) Unknown if specimen test given		not obtained (8) No driver present
			(9) Unknown if specimen test given
1			

OTHER DATA	61. Rollover Initiation Object Contacted O
56. Driver's Zip Code	
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	 (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
(9) Unknown 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance	(0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction
(7) Hearse	PRECRASH DATA
(8) Fire truck or car (9) Unknown	64. Pre-Event Movement (Prior to
ROLLOVER DATA If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	 (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle
59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type	 (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown	(98) No driver present (99) Unknown

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(57) Fence (00) No rollover (01-30) - Vehicle Number (58) Wall (59) Building Noncollision (60) Ditch or culvert (31) Turn-over — fall-over (61) Ground (33) Jackknife (62) Fire hydrant (63) Curb Collision With Fixed Object (64) Bridge (41) Tree (≤ 4 inches in diameter) (68) Other fixed object (specify): (42) Tree (> 4 inches in diameter) (43) Shrubbery or bush (69) Unknown fixed object (44) Embankment Collision with Nonfixed Object (45) Breakaway pole or post (any diameter) (71) Motor vehicle not in-transport (76) Animal (77) Train Nonbreakaway Pole or Post (50) Pole or post (≤ 4 inches in diameter) (78) Trailer, disconnected in transport (51) Pole or post (> 4 inches but ≤ 12 inches in (88) Other nonfixed object (specify): diameter) (52) Pole or post (> 12 inches in diameter) (89) Unknown nonfixed object (53) Pole or post (diameter unknown) (98) Other event (specify): (54) Concrete traffic barrier (55) Impact attenuator (99) Unknown event or object

(56) Other traffic barrier (includes guardrail)

(specify):

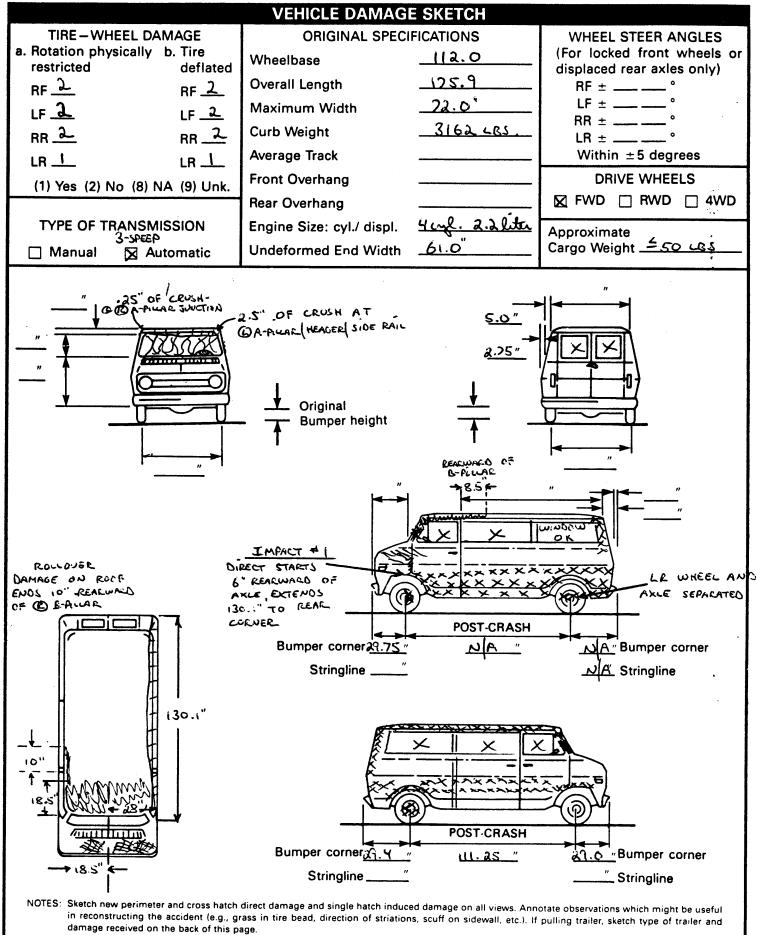
65.	Critical Precrash Event 62	Pedestrian or Pedalcyclist, or Other Nonmotorist
This	Vehicle Loss of Control Due To:	(80) Pedestrian in roadway (81) Pedestrian approaching roadway
	Blow out or flat tire	(82) Pedestrian - unknown location
	Stalled engine	(83) Pedalcyclist or other nonmotorist in roadway
	Disabling vehicle failure (e.g., wheel fell off)	(specify):
	(specify):	(84) Pedalcyclist or other nonmotorist approaching
(04)	Non-disabling vehicle problem (e.g., hood flew	roadway (specify):
	up) (specify):	(85) Pedalcyclist or other nonmotorist—unknown
(05)	Poor road conditions (puddle, pot hole, ice, etc.)	location (specify):
(00)	(specify):	011
	Traveling too fast for conditions Other cause of control loss (specify):	Object or Animal (87) Animal in roadway
(00)	Other cause of control loss (specify):	(88) Animal approaching roadway
(09)	Unknown cause of control loss	(89) Animal—unknown location
,00,		(90) Object in roadway
This	Vehicle Traveling	(91) Object approaching roadway
(10)	Over the lane line on left side of travel lane	(92) Object—unknown location
	Over the lane line on right side of travel lane	(or or o
	Off the edge of the road on the left side	(98) Other critical precrash event (specify):
(13)	Off the edge of the road on the right side	, , , , , , , , , , , , , , , , , , , ,
(14)	End departure	(99) Unknown
	Turning left at intersection	
	Turning right at intersection	
(17)	Crossing over (passing through) intersection	
(19)	Unknown travel direction	For Corrective Actions Attempted see variable GV14
046	an Makan Vakisla da dasa	(Attemped Avoidance Manuever)
	er Motor Vehicle In Lane	
	Stopped Traveling in same direction with lower speed	
(51)	(i.e., lower steady speed or decelerating)	66. Precrash Stability After Avoidance Maneuver
(52)	Traveling in same direction with higher speed	(0) No avoidance maneuver
(53)	Traveling in opposite direction	(1) Tracking
(54)	In crossover	(2) Skidding longitudinally—rotation less than 30
	Backing	degrees
(59)	Unknown travel direction of other motor vehicle	(3) Skidding laterally—clockwise rotation
	in lane	(4) Skidding laterally—counterclockwise rotation
		(7) Other vehicle loss-of-control (specify):
	er Motor Vehicle Encroaching Into Lane	
(60)	From adjacent lane (same direction) - over left	(8) No driver present
1641	lane line	(9) Precrash stability unknown
(01)	From adjacent lane (same direction) — over right lane line	
1621	From opposite direction—over left lane line	
(63)	From opposite direction—over right lane line	67. Precrash Directional Consequences of
	From parking lane	Avoidance Maneuver (Corrective Action)
	From crossing street, turning into same	(0) No avoidance maneuver
,,,,,	direction	(1) Vehicle stayed in travel lane where avoidance
(66)	From crossing street, across path	maneuver was initiated
(67)	From crossing street, turning into opposite	(2) Vehicle stayed on roadway but left travel lane
	direction	where avoidance maneuver was initiated
(68)	From crossing street, intended path not known	(3) Vehicle stayed on roadway, not known if left
(70)	From driveway, turning into same direction	travel lane where avoidance maneuver was
(71)	From driveway, across path	initiated
(72)	From driveway, turning into opposite direction	(4) Vehicle departed roadway
(/3)	From driveway, intended path not known	(5) Avoidance maneuver initiated off roadway
(74)	From entrance to limited access highway	(8) No driver present
(78)	Encroachment by other vehicle—details unknown	(9) Directional consequences unknown
	*** IF THE CDS APPLICABLE VEHICLE W	AS NOT INSPECTED (I.E., GV35=0), *** R AND INTERIOR VEHICLE FORMS

PRECRASH DATA (Continued)

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

U.S. Department of Transportation

National Highway Traffic Safety Administration 1. Primary Sampling Unit Number 2. Case Number - Stratum		EX	EXTERIOR VEHICLE FO				NAT		NT SAMPLING SYSTEM HINESS DATA SYSTEM			
		nber		3. Vehicle Number					02			
		9	92-10									
		\	VEHICLE II	DENTIF	ICATI	ON				. 7		
VIN <u>2</u>	<u> </u>	1 1 K	ーユー					_	Model Y	ear <u>8</u>	8	
Vehicle Ma	ke (specify): <u>Dob</u>	6E			Vehicle I	Model (s	pecify):	CAR	NAN	SE		
			LC	CATO	R							
	end of the damage amaged axle for side		ct to the veh	icle long	itudinal	center	line or b	umper c	orner fo	r end in	npacts	
Specific I	mpact No.	Location	of Direct Da	mage			Lo	cation o	of Field	_		
1 STARTS OU		COD NE	WHEEL 6	" BEHIN	O AXCE	SAA	2A 31	DIRE	<u>CT</u>			
	EXTEN	05 130	I" REARWA	iro								
2	(ROLL OVER) FULL	AO HIDIM				700					,	
				SH PRO								
S P ii F	dentify the plane at sill, etc.) and label acome deasure and docume deasure C1 to C6 from pacts. Free space value is done individual C locate individual C locate indeasure, etc. Recombined the plane of Impact C-Measurements COUSE RODY CREASE	djustments ant on the v om driver to defined as t tions. This ord the value	vehicle diagropassenger he distance may include the for each (necessary to Damage Max Crush	pace). am the lings side in sections between the following controls cont	front or the ballowing: rement e each (of max rear imposed in a bumper and madamage C_2	nd the clead, beginning the control of the control	rush. original lumper to crush. C4	o front i	n side ntour ta le protre	ken at	
	FREE-SPACE		1.25		1.25	0	1.25	1.25	1.92	0	<u> </u>	
	RESIDUAL CRUSH		8.625	130.1	L.25"	5.75	7.5"	7-875"	5.625	0	0,5.1	



Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

CDC WORKSHEET										
CODES FOR OBJECT CONTACTED										
(01-30)	- Vehicle Nur	mber		, -	7) Fence 8) Wall					
Noncoli	ision		(5	9) Building						
• - •	Overturn - ro				Ditch or	culvert				
	Fire or explosi	on		•	1) Ground					
	Jackknife Other intraunit	t damage (specif	w).		2) Fire hydr 3) Curb	ant				
(34)	Other mitration	L damage (specii	y 1.		4) Bridge					
	Noncollision in Other noncolli			•	B) Other fix					
(20)	Managliaina	detelle unkneu		_ (6	9) Unknow	n fixed obje	ct			
(39)	Noncollision -	- details unknow	/n	Collis	sion with No	nfixed Obje	ct			
Collisio	n With Fixed O	bject			1) Motor ve					
(41)	Tree (≤ 4 incl	hes in diameter)		(7	2) Pedestria	an	•			
	•	hes in diameter)	•		3) Cyclist o					
	Shrubbery or I Embankment	bush		(7	4) Other no	nmotorist o	r conveyand	e		
(44)	Embankment			17	5) Vehicle	occupant				
(45)	Breakaway po	le or post (any o	liameter)	(7	6) Animal					
(77) Train										
	akaway Pole or				8) Trailer, o			rt		
		≤ 4 inches in dia > 4 inches but :			8) Other no	ontixea obje	ct (specity):			
(31)	diameter)	> 4 inches but .		(89) Unknown nonfixed object						
		> 12 inches in c					•			
(53)	(53) Pole or post (diameter unknown) (98) Other event (specify):									
(54)	(54) Concrete traffic barrier (99) Unknown event or object									
	(55) Impact attenuator (56) Other traffic barrier (includes guardrail)									
(56)	Other traffic to (specify):	parrier (includes i	guardrail)							
	(opcony)			-		····				
	DEFORMATION CLASSIFICATION BY EVENT NUMBER									
					(4)	(5)				
Accident Event	t	(1) (2) Direction	Incremental	(3)	Specific Longitudinal	Specific Vertical or	(6) Type of	(7)		
Sequence	e Object	of Force	Value of	Deformation	or Lateral	Lateral	Damage	Deformation		
Number	Contacted	(degrees)	Shift	Location	Location	Location	Distribution	Extent		
01	01	55	00	<u> </u>	_0_	<u>E</u>	$\underline{\omega}$	<u>03</u>		
<u> </u>	61	000	00	エ	Y	0	0	03		
			-			**********				
										
				Temperatura de la como	-		***************************************			

National Accident Sampling System-Crashworthiness Data System: Exterior Vehicle Form Page 4 COLLISION DEFORMATION CLASSIFICATION HIGHEST DELTA "V" (4) (5) (6) Accident (3) Longitudinal Vertical or (7) (1)(2)Type of Event Deformation Sequence Object Direction Deformation or Lateral Lateral Damage Location Location Distribution Extent Number Contacted of Force Location 8. <u>D</u> 5. <u>O (</u> 6. <u>(O</u> 7.<u>L</u> 9. €_ 10.س 11. 03 Second Highest Delta "V" 12. 02 13. 6 1 14. 00 15. T 16. Y 17. D 18. O 19.<u>0</u>3 **CRUSH PROFILE** The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN INCHES.) HIGHEST DELTA "V" 20. 21. 22. C₄ C_2 C₃ ±D C_e Ce 130 ರಾತ್ 06 80_ 08 06 00 @Q15 Second Highest Delta "V" 23. 24. 25. C₂ C₁ C³ C₄ ± D C^e Ce

0

- 26. Are CDCs Documented but Not Coded on The Automated File?
 - (O) No
 - (1) Yes

- 27. Researcher's Assessment of Vehicle Disposition
 - (O) Not towed due to vehicle damage
 - (1) Towed due to vehicle damage
 - (9) Unknown

- 28. Original Wheelbase

 12.0 Code to the

 nearest tenth
 - of an inch (9999) Unknown

	10, 5, 86.		1.4	100	
National	Highway	/ Trafi	ie 8	afet	٠.
Adminis	tration	at the time	11. 9		6.5
- Childhis	114 (101)				-

ational Highway Traffic Safety INTERIOR VEHICLE FORM NATIONAL ACCIDENT SAMPLING SYSTI dministration CRASHWORTHINESS DATA SYSTI					
1. Primary Sampling Unit Number	GLAZING				
1. Primary Sampling Unit Number	Glazing Damage from Impact Forces				
2. Case Number - Stratum 92-10	15. WS <u>2</u> 16. LF 6 17. RF 6 18. LR 6 19. RR 6				
3. Vehicle Number	20. BL 6 21. Roof 8 22. Other 8				
INTEGRITY	(0) No glazing damage from impact forces				
4. Passenger Compartment Integrity O O (00) No integrity loss	(2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces				
Yes, Integrity Was Lost Through (O1) Windshield (O2) Door (side) (O3) Door/hatch (back door) (O4) Roof (O5) Roof glass (O6) Side window (O7) Rear window (backlight) (O8) Roof and roof glass (O9) Windshield and door (side)	(5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (8) No glazing (9) Unknown if damaged 2 - AR 2				
(10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window	28. BL O 29. Roof O 30. Other O				
(13) Door and side window (98) Other combination of above (specify): (99) Unknown	(0) No occupant contact to glazing or no glazing (1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact (3) Glazing in place and holed by occupant contact (4) Glazing out-of-place (cracked or not) by occupant oontact and not holed by occupant contact				
Door, Tailgate or Hatch Opening 5. LF 3 6. RF 3 7. LR 0 8. RR 3 9. TG/H 1	(5) Glazing out-of-place by occupant contact and holed by occupant contact (6) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant				
(0) No door/gate/hatch (1) Door/gate/hatch remained closed and operational	If No Glazing Damage <i>And</i> No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø				
(2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut (8) Other (specify):	Type of Window/Windshield Glazing				
	31. WS 1 32. LF 2 33. RF 2 34. LR 3 35. RR 3				
(9) Unknown	36. BL <u>3</u> 37. Roof O 38. Other O				
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(0) No glazing contact and no damage, or no glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted				
10. LF <u>O</u> 11. RF <u>O</u> 12. LR <u>O</u> 13. RR <u>O</u> 14. TG/H <u>O</u>	(4) AS-14 — Glass/Plastic (8) Other (specify):				
(0) No door/gate/hatch or door not opened	(9) Unknown				
Door, Teilgate or Hatch Came Open During Collision (1) Door operational (no damage) (2) Latch/striker failure due to damage	Window Precrash Glazing Status				
(3) Hinge failure due to damage (4) Door structure failure due to damage	39. WS 1 40. LF 3 41. RF 3 42. LR 3 43. RR 3				
(5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage	44. BL_1_45. Roof_O 46. Other_O				
(6) Latch/striker and hinge failure due to damage (8) Other failure (specify):	(0) No glazing contact and no damage, or no glazing				

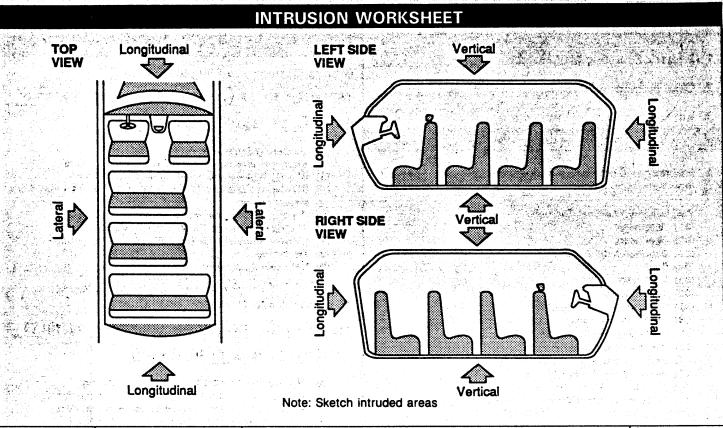
(1) Fixed

(2) Closed

(3) Partially opened

(4) Fully opened (9) Unknown

(9) Unknown



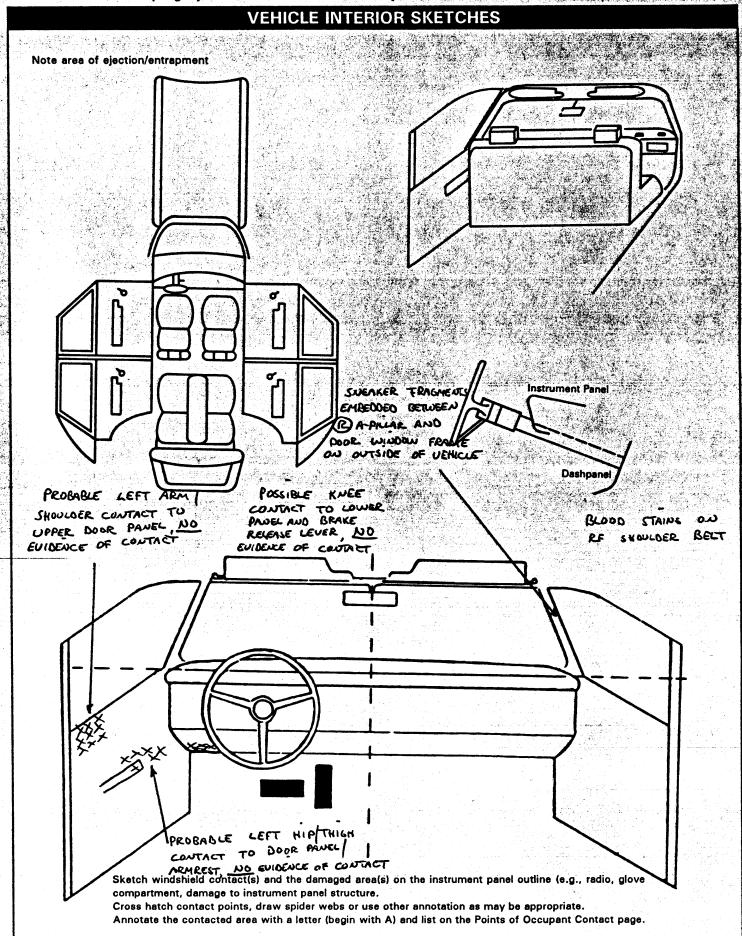
LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE —	INTRUDED VALUE	INTRUSION =	DOMINANT CRUSH DIRECTION
Same and the second					
3					
					ja 11.00 s. n. n. 1814. – 1 j. j. j. n. 1914. – 1
		 .			
N.	**************************************				
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		_			
				=	

OCCUPANT AREA INTRUSION INTRUDING COMPONENT Note: If no intrusions, leave variables IV47-IV86 blank. and the state of t Interior Components Dominant (01) Steering assembly Crush Location of Intruding Magnitude Direction (02) Instrument panel left Intrusion of Intrusion Component (03) Instrument panel center (04) Instrument panel right (05) Toe pan (06) A-pillar (07) B-pillar 1st 47. 1 1 48. 1 5 49. 2 50. 1 (08) C-pillar (09) D-pillar 2nd 51. \ \ \ 52. O 6 53. \ 54. \ (10) Door panel (side) (12) Roof (or convertible top) 3rd 55. 1 1 56. 1 3 57. 1 58. 1 (13) Roof side rail (14) Windshield (15) Windshield header (16) Window frame , (17) Floor pan (includes sill) (16) Window frame *** 4th 59. 1 60. 1 0 61. 3 62.3 (18) Backlight header (19) Front seat back (20) Second seat back (21) Third seat back 5th 63. 2 \ 64. 0 7 65. 2 66.3 (22) Fourth seat back (23) Fifth seat back (24) Seat cushion (25) Back door/panel (e.g., tailgate) 6th 67. 21 68. 2 8 69. 2 70. 3 (126) Other interior component (specify): 学生"神" (27) Side panel - forward of the A-pillar 7th 71. 1 3 72. 1 5 73. 1 74. 1 (28) Side panel - rear of the A-pillar Exterior Components (30) Hood (31) Outside surface of this vehicle (specify): 8th 75.___ 76.___ 77.__ (32) Other exterior object in the environment (specify): (33) Unknown exterior object 80.____ (97) Catastrophic (98) Intrusion of unlisted component(s)____ (specify): 84.____ 85.____ (99) Unknown LOCATION OF INTRUSION MAGNITUDE OF INTRUSION (1) \geq 1 inch but < 3 inches Fourth Seat Front Seat $(2) \ge 3$ inches but < 6 inches (11) Left (41) Left (3) \geq 6 inches but < 12 inches (12) Middle (42) Middle $(4) \ge 12$ inches but < 18 inches (13) Right (43) Right $(5) \ge 18$ inches but < 24 inches $(6) \geq 24$ inches Second Seat (97) Catastrophic (7) Catastrophic (98) Other enclosed (21) Left (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown DOMINANT CRUSH DIRECTION Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right (7) Catastrophic

(9) Unknown

				OKE DEFO			**************************************	e galatea (1965)
COMPAR	SON VALUE		DAMAC	E VALUE	***	DEFORM	NATION &	
			ali. NY	11:2000		total films	agenty of Sect of Section	
			/ - N.G.					in the second
		er en er		in the second	H 51	7:70	1 1 1	
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								NO. 1 No. 1
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			est de la					Transport
	en e						e in de la companie d La companie de la co	Totalis Elimpotaer
6월 1일년:								
eren ere Er Torren eren Hereka er gjelen eren eren eren eren eren					e e			And the second second

87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown	92. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest inch. (0) No steering rim deformation (1-5) Actual measured value (6) 6 inches or more (8) Observed deformation cannot be measured (9) Unknown 93. Location of Steering Rim/Spoke Deformation
	(00) No steering rim deformation
88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS. 89. Blank (This variable is left blank	Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke
so that numbering consistency can be maintained with the 1988-91 CDS.	(09) Complete steering wheel collapse (10) Undetermined location (99) Unknown
	INSTRUMENT PANEL
90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.	94. Odometer Reading
91. Blank (This variable is left blank so that numbering consistency	Source:
so that numbering consistency can be maintained with the 1988-91 CDS.	95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown
	96. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown
	97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown



		PUIN	115 OF UCC	CUPANT CONTACT	
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	09	DRIVER	O KNEE	110 EUIDENCE OF CONTACT	3
В	20	DRIVER	GIH [HOINTC]	NO EUIDENCE OF CONTACT	2
C	21	DRIVER		NO EVIDENCE OF CONTACT	2
D	41	DRIVER	TOSOLARD.	NO LORONG EVIDENCE	4
Ε	પા	RE PASSEDGE	R TORSOLABD.	BLOOD STAINS, DO LOADING EUIDENCE	Majorahan da Majarahan da Majar
F	32	RF PASSENGER	(C) FOOT	JUENKER FRAGMENTS	ered in
G					
Н					
1,					
J					
K		y New York	1200		
La Carlo					
M					
N					

L									
М									
N	1.11								
				CODES	FOR INT	ERIOR COMPONENTS			
FRONT (01)	Winds	hield		(26)		window glass including ore of the following:	(48)	Child safety seat (specify):
(02)	Mirror				frame, wi	ndow sill, A pillar,	(49)	Other interior object	ct (specify):
4.0	Sunvis	or ng wheel rim		1271		roof side rail. side object (specify):	en e		
		ng wheel hub/sp	oke	(2/)	Other left	side Object (specify).	ROOF		
	Steering	ng wheel (combi		(28)	Left side v	window sill		Front header	
(07)		es 04 and 05)		RIGHT	CIDE			Rear header	18 m
(07)		ng column, trans or lever, other a				interior surface,		Roof left side rail Roof right side rail	
(80)		n equipment (e.			_	hardware or armrests		Roof or convertible	
		air conditioner)			_	hardware or armrest			en ang Pagarat na Salah Salah Manggarat na Salah S Salah Salah Sa
		strument panel ' instrument pan			Right A pi	illar (1974), se geste e e (1974). Non esta de la composition de la compo	FLOOR	Floor (including to	a neol
		nstrument pane				it pillar (specify):		Floor or console m	
(12)	Glove	compartment de						transmission lever	, including
	Knee I				_	window glass or frame		console	
(14)		hield including of following: front		(36)	•	window glass including ore of the following:		Parking brake hand Foot controls inclu	
		instrument pane	•			ndow sill, A pillar,	(55)	brake	ang paking
		ng assembly (driv	•		•	r roof side rail.			
(15)		hield including o		(37)	Other righ	t side object (specify):	REAR		
		following: front instrument pane		(38)	Right side	window sill	(61)	Backlight (rear wir Backlight storage	•
	•	nger side only)		,,				Other rear object	
(16)	Other	front object (sp	ecify):	INTERIO					
					Seat, bac	k support sint webbing/buckle			en jar
LEFT S	IDE					aint Webbing/buckle aint B-pillar		i kan in di istori	
(20)	Left s	de interior surfa	ice,		attachme	•			
1041		ling hardware o		(43)		traint system component		CONFIDENCE LEV	
	Left 8	ide hardware or	armrest	IAAL	(specify):	raint system		CONTACT PO	IN I
	Left B	•			Air bag	ionit sastaili		(1) Certain	en de Konstantino de la composición de La composición de la
		left pillar (speci	fy):		•	cupants (specify):		(2) Probable	

(47) Interior loose objects

(25) Left side window glass or frame

(3) Possible

(9) Unknown

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found

	Assessment Form.	ould be assessed during the vehicle in	e de la constante de la consta
= 1		Left ************************************	Right
	Availability/Function		
3	Deployment		
	Failure	A STATE OF THE STA	attention by wall to
0) N 1) A Von-l (2) A	System Availability/Function Not equipped/not available Air bag functional Air bag disconnected (specify): Air bag not reinstalled Unknown	Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown	Did Air Bag System Fall? (0) Not equipped/not available (1) Nd (2) Yes (specify): (9) Unknown
		AUTOMATIC BELTS Left	Right
	Availability/Function ,	Cale Internal Control	O
	Use	0	· · · · · · · · · · · · · · · · · · ·
	Type	0	
	Proper Use	O	0
	Failure Modes	0	0
milab O) 1) 2) 3) Von- 4) 9) toma O) (1) (2)	atic (Passive) Belt System bility/Function Not equipped/not available 2 point automatic belts 3 point automatic belts Automatic belts - type unknown -functional Automatic belts destroyed or rendered inoperative Unknown atic (Passive) Belt System Use Not equipped/not available/destroyed or rendered inoperative Automatic belt in use Automatic belt not in use (manually disconnected, motorized track inoperative)	Proper Use of Automatic (Passive) Belt System (O) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly	Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown
(3) (9) (0) (1) (2)	Automatic belt use unknown Unknown atic (Passive) Belt System Type Not equipped/not available Non-motorized system Motorized system Unknown	with child safety seat (specify): (8) Other improper use of automatic belt system (specify):	

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

	pago.			
		Left	Center	Right
F	Availability	4		4-4
R	Use	04		04
ST	Failure Modes			
Ş	Availability	3	3	3
SE CO	Use		-	
Ň	Failure Modes			
T	Availability			
H	Use			
R	Failure Modes			
Q	Availability			
H	Use			
E R	Failure Modes			

		Availability	

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- 5 PASSENGER

- (3) Lap belt
- (4) Lap and shoulder belt
- SEATING
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

	5 (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	ILD SAFETY	and a start American Start	Burnt Catalya e Consul Countries	Section of the sectio	te from the same of the same o	The second second
	en a child safety seat is pres occupant's number using t						
Oc	cupant Number				Andrew Process	The late of the la	
1.	Type of Child Safety Seat	π.	DOUER	SEAT PU	CEO IN	Secono :	sent'
2.	Child Safety Seat Orientation		στ υ.	rou da	REST PAI	NED	
3.	Child Safety Seat Harness Usage		ΔT •	STROUTE	(CARGO) U	vere	泛接线
4.	Child Safety Seat Shield Uasge		(LDWW	HXXX	HICLE DU		
5.	Child Safety Seat Tether Usage			ROLL OUE			
6.	Child Safety Seat Make/Model		Specif	y Bèlow for E	ach Child Saf	ety Seat 点。	2012
2.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety (8) Unknown child safety (9) Unknown if child safety (9) Unknown if child safety (10) No child safety seat (11) Rear facing (12) Forward facing (13) Other orientation (14) Designed for Forward Facing (15) Forward facing (16) Unknown orientation (17) Forward facing (18) Other orientation (19) Unknown orientation (19) Unknown orientation (21) Rear facing (22) Forward facing (23) Other orientation (sp	seat type ty seat used ion for ecify): ing for This ecify): tation For This Age/Weight		4. Child Sat Note: Op (00) No Not Desi (01) Aft (02) Aft (03) Chi har (09) Un add Designed (11) Ha (12) Ha (19) Un Unknow (21) Ha (22) Ha (29) Un	child safety s gned with Har er market har ded, not used er market har ild safety seat rness/shield/te known if harn ded or used d With Harnes rness/shield/te known if harn	er Usage Are Used for eat rness/Shield/te ness/shield/te used, but no ether added ess/shield/te ether not use ether used ess/shield/te With Harness ether not use ether used ess/shield/te d safety seat ke/Model	ether ether used o after market ther d ther used s/Shield/Tether d ther used

(99) Unknown if child safety seat used

HEAD RESTRAINTS/SEAT EVALUATION

THE RESERVE OF THE PARTY OF THE NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage			
l R	Seat Type	10		10
Š	Seat Performance			
	Seat Orientation			
S	Head Restraint Type/Damage	0	0	O
E C	Seat Type	03	03	03
0 N	Seat Performance			1 - 1
Ď	Seat Orientation			
+	Head Restraint Type/Damage			
H	Seat Type			
Ř	Seat Performance			
D	Seat Orientation			
0	Head Restraint Type/Damage			
ř	Seat Type			
E	Seat Performance			
R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This **Occupant Position**

- No head restraints
- Integral no damage Integral damaged during accident (2)
- (3) Adjustable - no damage
- (4) Adjustable - damaged during accident
- (5)
- Add-on no damage Add-on damaged during accident (6)
- Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) No seat
- **Bucket** (01)
- (02)Bucket with folding back
- (03)Bench
- Bench with separate back cushions (04)
- (05) Bench with folding back(s)
- (06)Split bench with separate back cushions
- (07)Split bench with folding back(s)
- (08)Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10)Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (O) No seat
- No seat performance failure(s)
- Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- Seat tracks/anchors failed
- Deformed by impact of occupant
- Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (O) No seat
- Forward facing seat (1)
- Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN)**

		EJECTION/I	ENTRAPI	MENT DAT	ΓΑ	ATT OF THE TAXABLE	tanan kabupatèn Kon Helisto i	A leader William
	lete the following if the researd vehicle. Code the appropriat					r ejected fro	om or entra	ped
EJEC'			A Section 1		6.3 6.3			
	ibe indications of ejection and	- T - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2	volved in pa	artial ejection	(8): ☆			e de la companya de l
				******				111.1 4 . N. Zi
		t sa k irakista			104		ijerija.	*.4
; 45°		in a great process	,	+ 40720120136	Constitution of		n je je projektija je	ij,
		1000		- 1 to 15				- #F
ſ				1.22.4		1	Torres	1
	Occupant Number	01/	02	7777		le galaria		
	Ejection :							
	(Note on Vehicle Interior Sketch)				****			# **
	Ejection Area	2	3					
	Ejection Medium	a facility	4	Take the				
				To Vin Part 13				\mathbb{H}^n
4.3	Medium Status 🗼 🦠			100	4		LANGE T	
**** !								
Ejecti	그는 그 그는 그는 사람들이 하는 사람들이 가는 것은 그는 그 가는 하는 것이 되었다. 그렇게 되었다. 그렇지 않아 나는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	(7) Roof		di i		ntegral stru		
	Complete ejection Partial ejection		r area (e.g., p, etc.) (sp		(8) C	other mediu	m (specify)	ı !
	Ejection, Unknown degree Unknown	(9) Unkn	own		(9) L	Jnknown		
Eiecti	on Area	Ejection M			Medius to Imp	m Status (Ir act)	nmediately	Prior
(1)	Windshield Left front	(1) Door	/hatch/tailgaixed roof st		火(1) (open PAR Closed	TIAU)	
(3)	Right front	(3) Fixed	glazing		(3) 1	ntegral stru	cture	
(5)	Left rear Right rear	(4) Nonti	ixed glazing	(specity):	(9) (Jnknown		
(6)	Rear							

ENTRAPMENT No [Yes [Describe entrapment mechanism:	+ DOOR	GLASS	SHATTERED	DURING	
	ROLL				
Component(s):	The MALTER CONTROL OF THE STATE				
(Note in vehicle interior diagram)					

APPENDIX G

NASS Occupant Injury Forms
(Vehicle #2)



HS Form 433A (1/92)

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM

National Highway Traffic Safety CRASHWORTHINESS DATA SYSTEM Administration 11. Occupant Posture 1. Primary Sampling Unit Number (0) Normal posture (1) Abnormal posture (specify): 2. Case Number - Stratum (9) Unknown 02 3. Vehicle Number **EJECTION/ENTRAPMENT** 4. Occupant Number OCCUPANT'S CHARACTERISTICS 12. Ejection (0) No ejection 5. Occupant's Age (1) Complete ejection Code actual age at time of accident. (2) Partial ejection (00) Less than one year old (specify by month): (3) Ejection, unknown degree (9) Unknown (97) 97 years and older (99) Unknown 2 13. Ejection Area 2 6. Occupant's Sex (O) No ejection (1) Male (2) Female (1) Windshield (2) Left front (9) Unknown (3) Right front (4) Left rear 7. Occupant's Height 67" (5) Right rear Code actual height to the nearest inch. (6) Rear (99) Unknown (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): 8. Occupant's Weight (30 ანა (9) Unknown Code actual weight to the nearest pounds. (999) Unknown 4 14. Ejection Medium 9. Occupant's Role (0) No ejection (1) Driver (1) Door/hatch/tailgate (2) Passenger (2) Nonfixed roof structure (9) Unknown (3) Fixed glazing (4) Nonfixed glazing (specify): LF DOOR GLASS SHATTERED 10. Occupant's Seat Position 1 (Front Seat (5) Integral structure (11) Left side (8) Other medium (specify): (12) Middle (13) Right side (14) Other (specify): (9) Unknown (15) On or in the lap of another occupant 15. Medium Status (Immediately Prior To Impact) _ (Second Seat (21) Left side (0) No ejection -(22) Middle (23) Right side (1) Open PARTIAL (2) Closed (24) Other (specify): (3) Integral structure (25) On or in the lap of another occupant (9) Unknown Third Seat (31) Left side (32) Middle 16. Entrapment (33) Right side (NOTE: Entrapped means that part of the (34) Other (specify): person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to (35) On or in the lap of another occupant Fourth Seat constitute entrapment.) (41) Left side (0) Not entrapped (42) Middle (43) Right side (1) Entrapped (44) Other (specify): (9) Unknown (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown 119

RESTRAINT SYSTEM AND SEAT EVALUATION	21. Air Bag System Availability/Function
17. Manual (Active) Belt System Availability (0) None available	(0) Not equipped/not available (1) Air bag
(1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt	Non-functional (2) Air bag disconnected (specify):
(4) Lap and shoulder belt (5) Belt available—type unknown	(3) Air bag not reinstalled (9) Unknown
 Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) 	22. Air Bag System Deployment O
(8) Other belt (specify):	(0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact)
(9) Unknown	(2) Air bag deployed inadvertently just prior to accident
18. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed	(3) Air bag deployed, accident sequence undetermined (4) Nondeployed
(O1) Inoperative (specify):	(5) Unknown if deployed (6) Air bag deployed as a result of a noncollision
(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt	event during accident sequence (e.g., fire, explosion, electrical)
(05) Belt used—type unknown (08) Other belt used (specify):	(9) Unknown
(12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat	23. Did Air Bag System Fail? (0) Not equipped/not available
(14) Lap and shoulder belt used with child safety seat	(1) No (2) Yes (specify):
(15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify):	(9) Unknown
(99) Unknown if belt used	Note: See Variables 44 through 48 (Page 5)
19. Proper Use of Manual (Active) Belts (0) None used or not available	for Information on Automatic Belts
(1) Belt used properly (2) Belt used properly with child safety seat	24. Police Reported Restraint Use (0) None used
Belt Used Improperly (3) Shoulder belt worn under arm	(1) Police did not indicate restraint use (2) Shoulder belt
(4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person	(3) Lap belt (4) Lap and shoulder belt
(6) Lap belt worn on abdomen(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	(5) Belt used, type not specified (6) Child safety seat
(8) Other improper use of manual belt system	(7) Other or automatic restraint (specify):
(specify):	(8) Restrained, type unknown (9) Police indicated "unknown"
(9) Unknown	
20. Manual (Active) Belt Failure Modes During Accident	25. Head Restraint Type/Damage by Occupant (
(0) No manual belt used (1) No manual belt failure(s)	at This Occupant Position (0) No head restraints
(2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate	(1) Integral—no damage (2) Integral—damaged during accident
(4) Upper anchorage separated (5) Other anchorage separated (specify):	(3) Adjustable—no damage (4) Adjustable—damaged during accident
(6) Broken retractor (7) Combination of above (specify):	 (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):
(8) Other manual belt failure (specify):	(9) Unknown
(9) Unknown	

26.	Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket	30. Child Safety Seat OrientationOO
	(02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s)	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):
	(06) Split bench with separate back cushions(07) Split bench with folding back(s)(08) Pedestal (i.e., column supported)	(09) Unknown orientation
	(09) Other seat type (specify): (10) Box mounted seat (i.e., van type)	Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing
	(99) Unknown	(18) Other orientation (specify):
27.	Seat Performance (this Occupant Position) (0) Occupant not seated or no seat	(19) Unknown orientation Unknown Design or Orientation For This
	 (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed 	Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing
	(4) Seat track/anchors failed(5) Deformed by impact of occupant	(28) Other orientation (specify):
	(6) Deformed by passenger compartment intrusion (specify):	(29) Unknown orientation (99) Unknown if child safety seat used
	(7) Combination of above (specify):	31. Child Safety Seat Harness Usage O_O_
	(8) Other (specify): (9) Unknown	32. Child Safety Seat Shield Usage <u>O</u> O
	(9) Ohkilowii	33. Child Safety Seat Tether Usage Note: Options below applicable to
	CHILD SAFETY SEAT	Variables OA31-OA33. (00) No child safety seat
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used
	Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	(02) After market harness/shield/tether used (03) Child safety seat used, but no after market
	(998) Unknown make/model (999) Unknown if child safety seat used	harness/shield/tether added (09) Unknown if harness/shield/tether added or used
29.	Type of Child Safety Seat (0) No child safety seat	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used
	 (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): 	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
	(8) Unknown child safety seat type (9) Unknown if child safety seat used	(99) Unknown if child safety seat used

	INJURY CONSEQUENCES	38. Working Days LostOO
34.	Injury Severity (Police Rating) 3	Code the number of days (up through 60) that the occupant
	 (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident 	lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
35.	(9) Unknown Treatment - Mortality (0) No treatment (1) Fatal	39. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day =
	(2) Fatal - ruled disease Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported	31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown
	(6) Treatment later (8) Treatment - other (specify):	40. 1st Medically Reported Cause of Death O
	(9) Unknown	41. 2nd Medically Reported Cause of Death O
36.	Type Of Medical Facility (for Initial Treatment) 2 (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):	42. 3rd Medically Reported Cause of DeathCode the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (97) Other result (specify): (99) Unknown
37.	(9) Unknown Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

	ALITODA ATIO DELT OVOTERA			
	AUTOMATIC BELT SYSTEM		48.	Automatic (Passive) Belt Failure Modes During Accident
44.	Automatic (Passive) Belt System Availability/	0		(0) Not equipped/not available/not in use
	(0) Not equipped/not available			(1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included)
	(1) 2 point automatic belts (2) 3 point automatic belts			(3) Broken buckle or latchplate
	(3) Automatic belts - type unknown			(4) Upper anchorage separated(5) Other anchorage separated (specify):
	Non-functional			(6) Broken retractor
	(4) Automatic belts destroyed or rendered inoperative			(7) Combination of above (specify):
	(9) Unknown			(8) Other automatic belt failure (specify):
				(9) Unknown
45.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or	0		
	rendered inoperative		10	Seat Orientation (this Occupant Position)
	(1) Automatic belt in use (2) Automatic belt not in use (manually		43.	(0) Occupant not seated or no seat
	disconnected, motorized track inoperative)			(1) Forward facing seat (2) Rear facing seat
	(specify):			(3) Side facing seat (inward)
	(3) Automatic belt use unknown			(4) Side facing seat (outward) (8) Other (specify):
	(9) Unknown			, ,
16	Automatic (Passive) Belt System Type	0		(9) Unknown
40.	(0) Not equipped/not available			TRAUMA DATA
	(1) Non-motorized system (2) Motorized system		50	Glasgow Coma Scale (GCS) Score
	(9) Unknown		00.	(at Medical Facility)
				(00) Not injured (01) Injured - not treated at medical facility
47	Proper the of Automotic (Passive	\sim		(02) No GCS Score at medical facility
47.	Proper Use of Automatic (Passive Belt System	<u>O</u>		(03-15) Code the actual value of the initial GCS Score recorded at medical
	(0) Not equipped/not available/not used			facility.
	(1) Automatic belt used properly (2) Automatic belt used properly with			(97) Injured, details unknown (99) Unknown if injured
	child safety seat			•
	Automatic Belt Used Improperly		51.	Was the Occupant Given Blood?
	(3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back			(1) No - blood not given (2) Yes - blood given
	(5) Automatic belt worn around more than			(specify units):
	one person (6) Lap portion of automatic belt worn			(9) Unknown if blood given
	on abdomen			
	(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly		52.	Arterial Blood Gases (ABG) – HCO ₃ O (
	with child safety seat (specify):			(01) Injured, ABGs not measured of reported)
	(8) Other improper use of automatic belt syster	m		(02-50) Code the actual value of the HCO ₃ (96) ABGs reported , HCO ₃ unknown
	(specify):(9) Unknown			(97) Injured, details unknown
	(o) omalowi			(99) Unknown if injured
	LIDDATE CANDIDA		L	NO / NO
	UPDATE CANDIDAT	-		NO [JY YES []
	OCCUPANT INJURY FORM INCLUDED V	NITH	INI	ITIAL SUBMISSION? NO [] YES [
	*** C	TOP	HE	RE ***
	IF THERE ARE N	NO R	ECC	ORDED INJURIES
1	(I.E., O	A43	=00	0,97,99)

U.S. Department of Transportation National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 3. Vehicle Number 0 2

2. Case Number - Stratum 9 2 - 1 0 4. Occupant Number 0 1

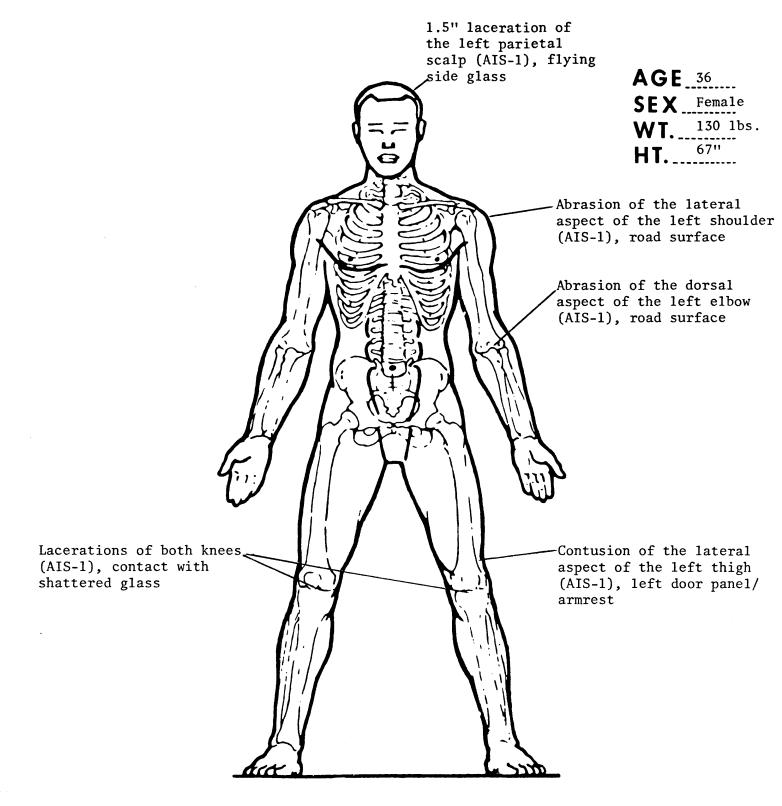
INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source	O.I.CA.I.S						Injury		
	of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1st	5. <u>3</u>	6. <u>H</u>	7. <u>L</u>	8. <u>L</u>	9. <u>T</u>	10. <u> </u>	11. <u>9 1</u>	12. <u>J</u>	13. <u>2</u>	14. <u>00</u>
2nd	15. <u>3</u>	16. <u>E</u>	17. <u>L</u>	18. <u>P.</u>	19. <u>I.</u>	20. <u>l</u>	21. <u>84</u>	22. <u>l</u>	23	24. <u>00</u>
3rd	25. <u>3</u>	26. <u>S</u>	27. <u>L</u>	28. <u>A</u>	29. <u>工</u>	зо. <u>1</u>	31. <u>84</u>	32. <u> </u>	33. <u> </u>	34. <u>O O</u>
4th	35. <u>3</u>	36. <u>K</u>	37. <u>L</u>	38. <u>L</u>	39. 工	40. <u>l</u>	41. 9 1	42. <u>2</u>	43. 📗	44. <u>D.D</u>
5th	45. <u>3</u>	46. <u>K</u>	47. <u>R</u>	48. <u>L</u>	49.]_	ьо, <u>t</u>	51. <u>9 1</u>	52. <u>2</u>	53. <u> </u>	54. <u>0</u> 0
6th	66. <u>7</u>	56. <u>T</u>	57. <u>L</u>	58. <u>C</u>	<u>T</u> .83	60. <u>l</u>	61. <u>2 1</u>	62. <u> </u>	63. <u> </u>	64. <u>0 4</u>
7th	6 5	66	67	68	69	70	71	72	73	74
8th	76	76	77	78	79	80	81	82	83	84
9th	85	86	87	88	89	90	91	92	93	94
10th	95	96	97	98	99	100	101	102	103	104

HS Form 433B (1/92)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.



SOURCE OF INJURY DATA OFFICIAL

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (e.g., dishcarge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- Interviewee
- (8) Other source (specify):
- (9) Police

INJURY SOURCE

FRONT

- (01) Windshield
- (O2) Mirror
- (03) Sunvisor
- (04)Steering wheel rim
- (05) Steering wheel hub/spoke (06) Steering wheel (combination of codes 04 and 05)
- Steering column, transmission selector lever, other attachment
- Add on equipment (e.g., CB, tape
- deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, Apillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, Apillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- Other right pillar (specify): (34)
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A pillar, B pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- Other exterior surface or tires (specify):
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- Hood (73)
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE

ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- Probable
- (3) Possible
- Unknown

DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- Indirect contact injury
- Injured, unknown source

O.I.C. Body Region Aspect of Injury

- Abdomen
- (Q) Ankle-foot
- Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm (H) Head-skuli
- Injured, unknown region
- (K)
- Leg (lower) (L) Lower limbs(s) (whole or (Y)
- unknown part)
- INI Neck-cervical spine Pelvic - hip (P)
- Shoulder (S)

(T)

- Thigh (X) Upper limb(s) (whole or unknown part)
- Whole body Wrist-hand

- (A)
- Anterior -- front (B) Bilateral (rib fracture only)
- (C) Central
- m Inferior-lower
- (U) Injured, unknown aspect
- (L) Left (P) Posterior-back
- (R) Right (S) Superior-upper
- (W) Whole region Lesion
- Abrasion Amputation (M)
- (V) Avulsion
- (B) Burn

(N)

- (K) Concussion Contusion (C)
- Crush (G) Detachment, separation Dislocation

- (Z) Fracture and dislocation
- (U)
- Perforation, puncture
- (R)
- (S) Sprain

(E)

- (T) Strain

- (B) Brain
- (E) Ears
- (H) Heart
- (U)
- (1) Integumentary
- (J)

- Certain
- (1) (2)

- (3) Noncontact injury

OCCUPANT INJURY CLASSIFICATION

- Fracture
- Injured, unknown lesion Laceration
- (0)
- Rupture
 - Total severance, transection
- System/Organ
- (W) All systems in region Arteries - veins (A)
- (D) Digestive
- (0) Eye
- Injured, unknown system
- Joints (K) Kidneys

Liver

(Q)

- Muscles
- (N) Nervous system Pulmonary-lungs (P)
- (R) Respiratory
- (S) Skeletal (C) Spinal cord Spieen
- gland (V) Vertebrae

Abbreviated Injury Scale

Thyroid, other endocrine

- Minor injury
- (2) Moderate injury (3) Seriour injury
- Severe injury (4) (5) Critical injury
- (6) Maximum (untreatable)
- Injured, unknown severity



U.S. Department of Transportation

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

National Highway Traffic Safety Administration

NATIONAL ACCIDENT SAMPLING SYSTEM

	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number	11. Occupant Posture
2. Case Number - Stratum 9 2 1 0	(0) Normal posture (1) Abnormal posture (specify):
3. Vehicle Number <u>O 2</u>	(9) Unknown
4. Occupant Number <u>O 2</u>	EJECTION/ENTRAPMENT
OCCUPANT'S CHARACTERISTICS	
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown
6. Occupant's Sex (1) Male (2) Female (9) Unknown 7. Occupant's Height 61" Code actual height to the nearest inch. (99) Unknown 8. Occupant's Weight 125 Les. Code actual weight to the nearest pounds. (999) Unknown	13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown 10. Occupant's Seat Position Front Seat (11) Left side (12) Middle (13) Right side (14) Other (specify): (15) On or in the lap of another occupant	14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): 2F DOOR GLASS SHATTERED (5) Integral structure (8) Other medium (specify): (9) Unknown
Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open PACTIA (2) Closed (3) Integral structure (9) Unknown 16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
	27

	STRAINT CYCTEM AND CEAT EVALUATION				$\overline{}$
R	ESTRAINT SYSTEM AND SEAT EVALUATION	21.	Air	Bag System Availability/Function Not equipped/not available	0
17.	. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed		(1)	Air bag	·
	(2) Shoulder belt			a-functional Air bag disconnected (specify):	
	(3) Lap belt (4) Lap and shoulder belt		(2)	All bag disconnected (specify).	
	(5) Belt available—type unknown		(3) (9)	Air bag not reinstalled Unknown	
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed)				
	(7) Lap belt (shoulder belt destroyed/removed)	22.	Air	Bag System Deployment	0
	(8) Other belt (specify):		(0)	Not equipped/not available Air bag deployed during accident (as a	
	(9) Unknown		(2)	result of impact) Air bag deployed inadvertently just	
1Ω	. Manual (Active) Belt System Use		(3)	prior to accident Air bag deployed, accident sequence	
''	(OO) None used, not available, or belt			undetermined	
	removed/destroyed (O1) Inoperative (specify):			Nondeployed Unknown if deployed	
			(6)	Air bag deployed as a result of a noncollision	on
	(O2) Shoulder belt (O3) Lap belt			event during accident sequence (e.g., fire,	
	(04) Lap and shoulder belt	l	(9)	explosion, electrical) Unknown	
	(05) Belt used—type unknown (08) Other belt used (specify):	1	101		
1		22	D:-	Air Bag System Enil?	0
١.	(12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat	23		I Air Bag System Fail? Not equipped/not available	
1	(14) Lap and shoulder belt used with child		(1)	No	
1	safety seat (15) Belt used with child safety seat—type unknown	1	(2)	Yes (specify):	
	(18) Other belt used with child safety seat (specify):		(9)	Unknown	
	(99) Unknown if belt used	1		•	
1			No	te: See Variables 44 through 48 (Page 5) for Information on Automatic Belts	
19	9. Proper Use of Manual (Active) Belts (0) None used or not available			for information on Automatic Beits	
l	(1) Belt used properly	İ			
	(2) Belt used properly with child safety seat	24		lice Reported Restraint Use None used	7
1	Belt Used Improperly	İ		Police did not indicate restraint use	
	(3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat			Shoulder belt	
	(5) Belt worn around more than one person	1		Lap belt Lap and shoulder belt	
	(6) Lap belt worn on abdomen			Belt used, type not specified	
	(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):		(6)	Child safety seat	
			(7)	Other or automatic restraint (specify):	
	(8) Other improper use of manual belt system (specify):			Restrained, type unknown	•
			(9)	Police indicated "unknown"	
	(9) Unknown				
2	O. Manual (Active) Belt Failure Modes				
12	During Accident	25	. He	ead Restraint Type/Damage by Occupant	١
	(0) No manual belt used (1) No manual belt failure(s)	-		This Occupant Position	
	(1) No manual belt failule(s) (2) Torn webbing (stretched webbing not			No head restraints	
	included) (3) Broken buckle or latchplate) Integral—no damage) Integral—damaged during accident	
	(4) Upper anchorage separated		(3) Adjustable—no damage	
	(5) Other anchorage separated (specify):) Adjustable—damaged during accident	
	(6) Broken retractor) Add-on—no damage) Add-on—damaged during accident	
	(7) Combination of above (specify):			Other (specify):	
	(8) Other manual belt failure (specify):		(9	Unknown	
1	(9) Unknown	1			

	Seat Type (this Occupant Position) (00) Occupant not seated or no seat	30. Child Safety Seat Orientation OOO No child safety seat
	(01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):
	(07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify):	(09) Unknown orientation Designed For Forward Facing for This Age/Weight
	(10) Box mounted seat (i.e., van type) (99) Unknown	(11) Rear facing (12) Forward facing (18) Other orientation (specify):
27	Seat Performance (this Occupant Position)	(19) Unknown orientation
21.	(0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing
	(4) Seat track/anchors failed(5) Deformed by impact of occupant(6) Deformed by passenger compartment intrusion	(28) Other orientation (specify): (29) Unknown orientation
	(specify):	(99) Unknown if child safety seat used
	(7) Combination of above (specify): (8) Other (specify):	31. Child Safety Seat Harness Usage <u>O</u> <u>O</u>
	(9) Unknown	32. Child Safety Seat Shield UsageOO
	CHILD SAFETY SEAT	33. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33.
20		(00) No child safety seat
20.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used
	Data Collection, Coding and Editing (950) Built-in child safety seat	(02) After market harness/shield/tether used (03) Child safety seat used, but no after market
	(997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used	harness/shield/tether added (09) Unknown if harness/shield/tether added or used
29.	Type of Child Safety Seat Used	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used
	(0) No child safety seat (1) Infant seat	(19) Unknown if harness/shield/tether used
	 (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): 	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
	(8) Unknown child safety seat type (9) Unknown if child safety seat used	(99) Unknown if child safety seat used

INJURY CONSEQUENCES	38. Working Days Lost
34. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident	Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
(9) Unknown 35. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported	39. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown
(6) Treatment later (8) Treatment - other (specify): (9) Unknown	40. 1st Medically Reported Cause of Death OO 41. 2nd Medically Reported Cause of Death OO
36. Type Of Medical Facility (for Initial Treatment) 2 (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):	42. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (97) Other result (specify): (99) Unknown
(9) Unknown 37. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

7 0 .		
44. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	0	48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
 45. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative (specify): (3) Automatic belt use unknown (9) Unknown 		49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown
46. Automatic (Passive) Belt System Type	0	TRAUMA DATA
(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 47. Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with	0	50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind ba (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt sy (specify): (9) Unknown	,	51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 52. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
UPDATE CANDII OCCUPANT INJURY FORM INCLUDE		NO [YES [] H INITIAL SUBMISSION? NO [] YES [Y
IF THERE AF	* STOI	P HERE *** RECORDED INJURIES

U.S. Department of Transportation National Highway Traffic Safety Administration

1. Primary Sampling Unit Number

2. Case Number - Stratum

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

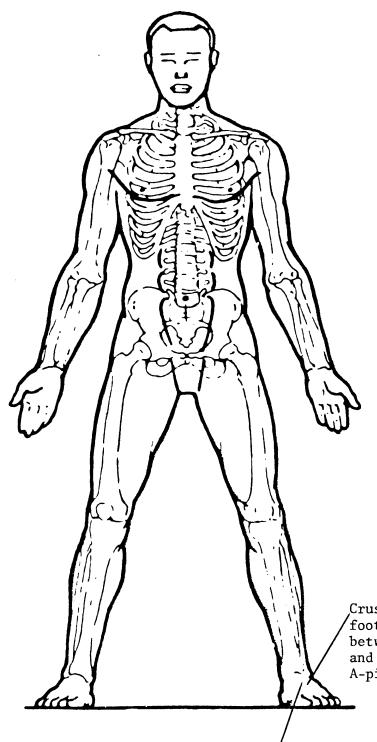
INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	O.I.CA.I.S						Injury Source	Direct/		
		Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Confidence Level	Indirect Injury	Occupant Area Intrusion No.	
st	Б. <u>2</u>	6. <u>Q</u>	7. <u>L</u>	8. <u>M</u>	9. <u>\v)</u>	10. <u>3</u>	11. 32 84	12	13. <u>(</u>	14. <u>0</u> 0	
!nd	15. <u>2</u>	16. <u>Q</u>	17. <u>L</u>	18. <u>A</u>	19. 工	20	21. <u>84</u>	22. <u>l</u>	23. 1	24. <u>0 0</u>	
Brd	25	26	27	28	29	30	31	32	33	34	
ŀth	35	36	37	38	39	40	41	42	43	44	
ith	45	46	47	48	49	60.	61	52. <u> </u>	53	54	
ith	5 5	Б6	67	58.	59	60	61	62	63	64	
'th	65	66	67	68	69	70	71	72	73	74	
3th	76	76	77	78	79	80	81	82	83	84	
)th	85	86	87	88	89	90	91	92	93	94	
Oth	95.	96.	97.	98.	99.	100.	101	102.	103	104.	

HS Form 433B (1/92)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.



AGE 14
SEX Female
WT. 125 1bs.
HT. 61"

Crushing injury of left foot (AIS-3), crushed between the road surface and the right upper A-pillar

Abrasion to the dorsal aspect of the left foot (AIS-1), road surface/A-pillar

SOURCE OF INJURY DATA **OFFICIAL**

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (e.g., dishcarge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

INJURY SOURCE

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee boister
- (14) Windshield including one or more of the following: front header, Apillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, Apillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface,
- excluding hardware or armrests (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify):
- (35)Right side window glass or frame
- Right side window glass including one or more of the following: frame, window sill, A pillar, B pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag
- (46)Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify):
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77)Side mirrors
- (78) Other side protrusions (specify)
- (79)Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82)Other exterior of other motor vehicle (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE **ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury (3) Noncontact injury
- (7) Injured, unknown source

OCCUPANT INJURY CLASSIFICATION

O.I.C. Body Region

- Abdomen
- (Q) Ankle-foot
- Arm (upper) (A) (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head - skull Injured, unknown region
- (U) (K) Knee
- (L) Leg (lower)
- (Y) Lower limbs(s) (whole or unknown part)
- (N) Neck-cervical spine Pelvic - hip (P)
- (S) Shoulder
- (T) Thigh
- Upper limb(s) (whole or (X) unknown part)
- (0)
- Whole body (W) Wrist-hand

- Aspect of Injury
- (A) Anterior-front (B) Bilateral (rib fracture only)
- (C) Central
- (1) Inferior-lower (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- Right (S) Superior-upper

(W) Whole region Lesion

(R)

- (A) Abrasion
- (M) Amoutation (V) Avulsion
- (B) Burn Concussion (K)
- (C) Contusion
- Detachment, separation (G)
- Dislocation

- (Z)Fracture and dislocation (U) Injured, unknown lesion
- Laceration (L)
- (0) Other Perforation, puncture (P)
- (R) Rupture
- ISI Sprain (T)
- Strain (E) Total severance, transection
- System/Organ
- (W) All systems in region (A) Arteries - veins
- (B) Brain (D) Digestive
- (E) Ears (0) Eve
- (H)Heart
- (U) Injured, unknown system (1) Integumentary
- (J) Joints
- (K) Kidneys

- (L) Liver (M) Muscles
- (N) Nervous system
- (P) Pulmonary-lungs
- (R) Respiratory (S) Skeletal
- (C) Spinal cord
- (Q) Spleen (T) Thyroid, other endocrine
- aland (V) Vertebrae

Abbreviated Injury Scale

- (1) Minor injury
- Moderate injury (2) (3) Seriour injury
- (4)Severe injury
- Critical injury (5) Maximum (untreatable)
- Injured, unknown severity